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BALTIMORE, JANUARY 16, 1913.

TWO VETERANS OF VIGOR.

The new year marked the close of immediate activity in their respective fields of two men whose names will always be identified with the history of industrial statistics in the United States—Charles B. Murray, who retired from the ownership of the Cincinnati *Price-Current*, with which he had been connected for 40 years, and James M. Swank, who retired from the American Iron and Steel Association coincidentally with the association's giving place to the American Iron and Steel Institute, as the statistical authority in the iron and steel trade. Mr. Murray made the *Price-Current*, which will hereafter be published at Chicago, the journalistic authority on the grain trade and allied interests, his policy having been to publish well-authenticated facts and current information rather than personal opinion, and, in addition, was active for 20 years as the superintendent of the Cincinnati Chamber of Commerce. Mr. Murray does not propose to quit his active journalistic interest in the grain trade, in spite of his 75 years, nor will the 80 years of Mr. Swank prevent him from following closely the statistical work in iron and steel to which he gave a character for reliability and comprehensiveness not excelled in that field or in any other. Each of these veterans were persuaded to write a brief summary of their 40 years' connection with their respective businesses, and those summaries are so interesting as to lead to the hope that each of the writers may be given years of vigor in which to elaborate them into volumes that cannot fail to be important contributions to the history of the material progress of the United States.

FLORIDA AND CALIFORNIA FRUIT.

Just as Florida fruit growers were on the point of righteous indignation at California discrimination against Florida grapefruit shipped from Tampa to Los Angeles, they were called upon to sympathize with California fruit growers because of the disaster to the orange groves in the Pacific Coast State, involving a loss conservatively estimated at \$20,000,000. According to letters received in Florida, two boxes of grapefruit consigned from Tampa to a resident of Los Angeles as a Christmas present were, "under the horticultural quarantine law of the State of California," which it is said bars from California all citrus fruits from the South Atlantic and Gulf States, destroyed in the city incinerator. The letter from Los Angeles, which lies in the citrus-growing section of the State, was coincident in mailing with a letter from San Francisco, farther north, acknowledging the receipt of other grapefruit from Tampa, which contained the following tribute to the Florida product:

You certainly sent some convincing proof of the superiority of Florida grapefruit over the home-raised product. It excels in flavor, size and thinness of rind.

The arrival of these two letters at Tampa stirred Florida fruit growers and the Florida Fruit Exchange, first, in the direction of discovering whether the law had been properly interpreted at Los Angeles; second, toward referring the matter to the Interstate Commerce Commission for determination whether such a law for California is constitutional; and, third, if such is the case, toward securing from the next Legislature of Florida a retaliatory law. Then came the news from Los Angeles of the results of three days of freezing weather:

The first reports that all the young trees were killed and many of the older one were so seriously hurt that they would not bear for several seasons were greatly exaggerated. The frost was not severe enough to kill anything except nursery stock, but it was enough to spoil many of the oranges and grapefruit on the trees, and practically all the lemons. "Smudging" was general in all the orange groves, and no doubt the smoke and warmth from these fires saved a large amount of fruit.

While Pomona reported damage of 80 per cent. of the crop, San Bernardino county seemed to be the heaviest sufferer. San Bernardino includes the large Redlands orange section adjoining Riverside, and it was declared that 90 per cent. of the crop was ruined. In this county alone it was asserted that growers would lose from \$9,000,000 to \$11,000,000.

At the beginning of the season this year's crop value was estimated at \$50,000,000. According to the heads of the various fruit associations and firms, the damage done by the three-days freeze will amount to nearly half the crop.

Florida can sympathize with California in this visitation, but such sympathy should not cause any relaxation of efforts to remove any element of injustice toward Florida fruits that may exist in California law. If there

is discrimination in California against citrus fruits of Florida, it must be because of apprehension that the Florida products may rival those of California in the markets of the country. A basis for such a suggestion is had in the San Francisco letter describing Florida grapefruit as excelling California grapefruit in flavor, size and thinness of rind. Be that as it may, the apprehension of California is grounded upon the fallacy that the market for citrus fruits is strictly limited in size and in number of buyers, and that, therefore, sales of the products of Florida will mean diminishing sales for the California products. The contrary is the fact. What were regarded as luxuries 25 or 30 years ago are now almost necessities in daily fare, and instead of the demand for citrus fruits from one part of the country being materially checked or expanded by the quantity shipped from another part, the demand is steadily increasing, and is regulated principally according as the fruit is of high quality or below the standard. The average consumer does not concern himself about the place of the origin of his breakfast fruit or dessert, except where experience has taught him that the methods of shipment are a guarantee of the merits of the fruit. Consequently, efforts to inject artifices of the law into a competition that should rest upon merit, and upon merit alone, can have the ultimate effect only of creating the suggestion in the minds of buyers that something more than merit is required to maintain the sales of fruit.

These suggestions may be elaborated by the fruit growers, both of California and Florida, with the result that cross-purposes may yield to co-operation for the benefit of everybody concerned, consumers as well as growers.

FOR LOUISIANA.

Leading bankers and business men of New Orleans and other parts of Louisiana have organized a company designed to give an impetus to development of the State, and they expect to enlist in that work all the important financial and commercial interests of Louisiana. In a preliminary statement the wonderful natural resources of the State are set forth, and it is announced that the purpose of the new organization is to overcome the lack of outside publicity regarding the State's health and its money-making opportunities for settlers and investors of capital, and the lack of participation, co-operation and apparent interest on the part of some whose influence would give the State prestige at home and abroad and would aid materially in attracting population and capital. The work of publicity proposed is to be supplemented by work of a trained corps of men who will conduct sales of land or other transactions upon a rock-bottom basis of truth and honest dealing, so that every transaction will become an enter-

ing wedge for others. Among the men whose names are mentioned in connection with the preliminary organization are those who have been active on several lines in the advancement of Louisiana, and the working out of their plan will be studied carefully by everybody who knows what Louisiana has to offer for investment and realizes that systematic effort can accomplish a great deal in having the offer taken.

DIVERSIFICATION IN SOUTHERN AGRICULTURE.

Because of the widely ramified importance of the cotton crop of the South the part borne by other field crops of that section in the agricultural production of the country is often overlooked.

Twelve leading crops of the country last year had an aggregate value of \$4,907,449,000, representing about 53 per cent. of the total agricultural production in that year. To these 12 crops 283,342,000 acres of land were devoted, and upon 33,000,000 of these acres, or 11.7 per cent. of the total, was raised the crop of cotton, with its seed, having a value of at least \$1,000,000,000, or 20.4 per cent. of the aggregate value of the 12 crops. That is a striking illustration of the importance of the South's cotton crop in American agriculture. At the same time it must be remembered that the South is raising more than 1,404,000,000 bushels of grain crops annually. Comparison of Southern production in 1911 and 1912 is made in the accompanying table:

Twelve Southern Crops.

Crops.	1911.	1912.
Cotton, bales.....	16,138,000	*14,500,000
Corn, bushels.....	915,281,000	1,135,157,000
Hay, tons.....	7,254,000	11,932,000
Wheat, bushels.....	101,750,000	98,398,000
Tobacco, pounds.....	644,110,000	703,709,000
Oats, bushels.....	93,936,000	140,162,000
Irish potatoes, bush.....	26,368,000	49,888,000
Rice, bushels.....	22,928,000	24,984,000
Rye, bushels.....	2,553,000	2,571,000
Buckwheat, bushels.....	1,746,000	1,873,000
Barley, bushels.....	892,000	973,000
Flaxseed, bushels.....	57,000	81,000

*Estimated.

Every one of these crops, with the exception of cotton and wheat, was greater in 1912 than in 1911, but the cotton crop is likely, at prevailing prices, to yield as much money as the crop of 1911, and the aggregate quantity of the grain crops increased from 1,139,053,000 bushels to 1,404,190,000 bushels, or by 265,146,000 bushels, equal to 23.3 per cent. The increase in corn production was 219,876,000 bushels, or 24 per cent.; in hay, 4,678,000 tons, or 64.5 per cent.; in tobacco, 59,599,000 pounds, or 9.3 per cent.; in oats, 46,226,000 bushels, or 49.2 per cent.; in Irish potatoes, 23,520,000 bushels, or 89.2 per cent.; in rice, 2,056,000 bushels, or 8.9 per cent.; in buckwheat, 127,000 bushels, or 7 per cent.; in barley, 171,000 bushels, or 21.3 per cent.; in flaxseed, 24,000 bushels, or 42.3 per cent., and in rye, 18,000 bushels.

In the following table the South's

share in production of these 12 crops by values is shown:

South's Share in Twelve Crop Value.

Crops.	The South.	United States.
Cotton*	\$1,000,000,000	\$1,001,000,000
Corn	692,473,000	1,530,454,000
Hay	150,415,000	856,695,000
Wheat	50,804,000	555,280,000
Tobacco	73,664,000	104,063,000
Oats	61,763,000	452,469,000
Irish potatoes	36,998,000	212,550,000
Rice	23,359,000	23,423,000
Rye	2,355,000	23,636,000
Buckwheat	1,421,000	12,720,000
Barley	676,000	112,957,000
Flaxseed	91,000	32,302,000
Total	\$2,134,019,000	\$4,907,449,000

*Estimated.

About the only State outside the South where cotton was grown to any extent in 1912 was California, and the crop there was only a few thousand bales raised in the Southern part of the State by men who are making the most of the land for this crop. Of the 25,054,000 bushels of rice, all but 70,000 bushels, grown in California also, were raised in the South. Tobacco is grown in nearly every part of the country, but the South dominates in that crop and produces more than 70 per cent. of it. The South also raises most of the sweet potatoes of the country, which makes the more significant the fact that its 1912 crop of Irish potatoes was an increase over the 1911 crop of nearly 90 per cent., while the increase in the rest of the country was at the rate of only 18 per cent. The country's corn crop in 1912 was the largest ever produced, but although the South's crop was 36 per cent. of the total, it fell short by 149,676,000 bushels of its record crop of 1910. The South's wheat crop shared the decline in the winter-wheat crop in the whole country. The accompanying tables present by States the quantities and values of 11 crops in 1912 based upon preliminary figures which in two or three instances do not include the production in a few Southern States.

Corn.

States.	Bushels.	Value.
Alabama	54,180,000	\$42,802,000
Arkansas	50,490,000	33,828,000
Florida	8,515,000	6,727,000
Georgia	53,958,000	45,864,000
Kentucky	109,440,000	60,192,000
Louisiana	32,490,000	22,093,000
Maryland	24,455,000	13,450,000
Mississippi	56,840,000	40,356,000
Missouri	243,904,000	112,196,000
North Carolina	51,108,000	42,418,000
Oklahoma	101,878,000	41,770,000
South Carolina	34,278,000	29,136,000
Tennessee	88,298,000	53,862,000
Texas	153,300,000	98,112,000
Virginia	47,520,000	33,739,000
West Virginia	24,505,000	15,928,000
Total	1,135,157,000	\$692,473,000
United States	3,124,746,000	\$1,520,454,000

Rye.

States.	Bushels.	Value.
Alabama	12,000	\$16,000
Arkansas	10,000	10,000
Georgia	101,000	141,000
Kentucky	273,000	240,000
Maryland	418,000	334,000
Missouri	222,000	178,000
North Carolina	409,000	429,000
Oklahoma	48,000	42,000
South Carolina	28,000	41,000
Tennessee	196,000	192,000
Texas	33,000	36,000
Virginia	600,000	510,000
West Virginia	221,000	186,000
Total	2,571,000	\$2,355,000
United States	35,664,000	\$23,636,000

Buckwheat.

States.	Bushels.	Value.
Maryland	210,000	\$149,000
Missouri	30,000	28,000
North Carolina	175,000	149,000
Tennessee	54,000	42,000
Virginia	516,000	357,000
West Virginia	888,000	606,000
Total	1,873,000	\$1,421,000
United States	19,249,000	\$12,720,000

Hay.

States.	Tons.	Value.
Alabama	261,000	\$3,811,000
Arkansas	352,000	4,224,000
Florida	54,000	977,000
Georgia	316,000	5,372,000
Kentucky	1,002,000	13,727,000
Louisiana	234,000	2,972,000
Maryland	575,000	8,280,000
Mississippi	297,000	3,712,000
Missouri	4,143,000	40,601,000
North Carolina	381,000	6,363,000
Oklahoma	481,000	3,559,000
South Carolina	223,000	4,014,000
Tennessee	1,154,000	18,233,000
Texas	542,000	5,637,000
Virginia	889,000	13,513,000
West Virginia	1,028,000	15,420,000
Total	11,932,000	\$150,415,000
United States	72,691,000	\$856,695,000

Wheat.

States.	Bushels.	Value.
Alabama	318,000	\$359,000
Arkansas	940,000	884,000
Georgia	1,228,000	1,498,000
Kentucky	6,889,000	8,536,000
Maryland	8,985,000	8,536,000
Mississippi	96,000	93,000
Missouri	23,750,000	21,375,000
North Carolina	5,322,000	5,907,000
Oklahoma	20,096,000	15,072,000
South Carolina	727,000	865,000
Tennessee	7,077,000	7,077,000
Texas	11,025,000	10,253,000
Virginia	8,596,000	8,682,000
West Virginia	3,378,000	3,412,000
Total	98,398,000	\$90,804,000
United States	730,267,000	\$555,280,000

Tobacco.

States.	Pounds.	Value.
Alabama	235,000	\$79,000
Florida	2,604,000	781,000
Georgia	1,162,000	349,000
Kentucky	343,980,000	29,926,000
Louisiana	150,000	45,000
Maryland	17,160,000	1,373,000
Missouri	6,000,000	720,000
North Carolina	110,980,000	17,757,000
South Carolina	24,500,000	2,670,000
Tennessee	72,600,000	5,155,000
Texas	140,000	24,000
Virginia	112,200,000	13,464,000
West Virginia	12,008,000	1,321,000
Total	703,709,000	\$73,664,000
United States	962,855,000	\$104,063,000

Oats.

States.	Bushels.	Value.
Alabama	5,200,000	\$3,224,000
Arkansas	3,482,000	1,741,000
Florida	740,000	518,000
Georgia	7,571,000	4,921,000
Kentucky	4,035,000	1,775,000
Louisiana	707,000	361,000
Maryland	1,350,000	608,000
Mississippi	1,966,000	1,180,000
Missouri	37,125,000	12,994,000
North Carolina	3,794,000	2,352,000
Oklahoma	23,494,000	7,988,000
South Carolina	6,966,000	4,598,000
Tennessee	5,599,000	2,632,000
Texas	31,140,000	13,390,000
Virginia	3,885,000	2,020,000
West Virginia	3,108,000	1,461,000
Total	140,162,000	\$61,763,000
United States	1,418,337,000	\$452,469,000

Irish Potatoes.

States.	Bushels.	Value.
Alabama	1,215,000	\$1,094,000
Arkansas	1,750,000	1,610,000
Florida	1,023,000	1,125,000
Georgia	936,000	814,000
Kentucky	5,151,000	3,451,000
Louisiana	1,460,000	1,212,000
Maryland	4,144,000	2,404,000
Mississippi	890,000	801,000
Missouri	7,980,000	5,506,000
North Carolina	2,550,000	1,938,000
Oklahoma	1,740,000	1,618,000
South Carolina	900,000	1,008,000
Tennessee	3,344,000	2,341,000
Texas	3,276,000	3,440,000
Virginia	8,265,000	5,372,000
West Virginia	5,264,000	3,264,000
Total	49,888,000	\$36,998,000
United States	420,647,000	\$212,550,000

Rice.

States.	Bushels.	Value.
Alabama	9,000	\$8,000
Arkansas	3,405,000	3,201,000
Florida	15,000	14,000
Georgia	27,000	24,000
Louisiana	11,812,000	10,985,000
Mississippi	77,000	69,000
North Carolina	10,000	9,000
South Carolina	200,000	186,000
Texas	9,429,000	8,863,000
Total	24,984,000	\$23,359,000
United States	25,054,000	\$23,423,000

Barley.

States.	Bushels.	Value.
Kentucky	78,000	\$58,000
Maryland	108,000	73,000
Missouri	149,000	98,000
Oklahoma	160,000	80,000
Tennessee	52,000	42,000
Texas	176,000	137,000
Virginia	250,000	188,000
Total	973,000	\$676,000
United States	223,824,000	\$112,957,000

Flaxseed.

States.	Bushels.	Value.
Missouri	72,000	\$79,000
Oklahoma	9,000	12,000
Total	81,000	\$91,000
United States	28,073,000	\$32,302,000

TELLING OF SOUTHERN CITIES.

Emphasizing the value to a community in publicity through the pages of the MANUFACTURERS RECORD, the *Daily Press* of Newport News, Va., says:

In every issue of the MANUFACTURERS RECORD of Baltimore there appears special correspondence from dozens of Southern cities telling of the progress being made in those communities. * * * This magazine circulates not only through the South, but throughout the country, and these "write-ups" are of great value to cities. They can be had free of cost, but even if there were charge for them it would be a cheap form of advertising.

In the thousands of items—there were 57,686 in 1912—published every year by the MANUFACTURERS RECORD bearing upon the industrial, railroad and financial activities throughout the South, no community of any size in the 16 Southern States escapes mention, and the frequency of mention is dependent entirely upon the extent and character of the activities in the respective communities. This weekly news service, which is of immense practical advantage to the communities in giving them the right sort of advertisement—that is to say, publicity in quarters from which definite results come—is also of great value to advertisers, subscribers and other readers of the MANUFACTURERS RECORD, and is supplemented whenever the occasion justifies or the opportunity presents itself by general correspondence covering special projects in States, cities, counties and towns or general developments there having importance as news. In addition, much space is devoted to information supplied by representatives of business bodies, officials or others of like public spirit who recognize the columns of the MANUFACTURERS RECORD as a sure means of advancing the interests of their communities. In all of this, whether coming from members of our staff, our traveling representatives who are constantly on the move in the South, local correspondents at strategic points, or other writers, much interesting matter must at times be omitted or condensed, because the field covered by the MANUFACTURERS RECORD is so vast, and so much news is developing from week to week through the year, that no space is available in the news columns for mere mention of long-accepted and generally-known facts about a community.

Even in the section of the paper devoted to descriptive advertising the aim is to give the articles a distinct news value, to avoid superlativism and comparison that might be regarded as invidious, and to render distinct service to the advertiser by presenting reading matter of interest to investors of many kinds, who recognize the MANUFACTURERS RECORD as an authoritative source of information that has won its standing by 30 and more years of work in its special field.

We believe—in fact, we know—from

the mass of data of the follow-up character that the *Newport News Daily Press* is correct in its judgment that the matter in our news columns has an advertising value unique in itself, and also that cost of descriptive advertising which is paid for at regular rates, is cheap compared with the returns that it brings.

DRIVE AGAINST THRIFT.

Primarily in the interest of mistaken real estate operators, but furthered often by the unthinking with apparently little comprehension of the proper province of the mutual savings banks, there has been a more or less perennial campaign for several years against the well-trying-out and eminently safe and successful conduct of such institutions in Baltimore. Bearing upon this agitation was an article in the *Baltimore News* last Saturday, preceded by a statement showing, that only about 16.3 per cent. of the total assets of five named savings banks is invested in mortgages and carrying the headline, "Savings Banks Like Bond Investments." The article stated that there has been much discussion and considerable feeling about the part the savings banks play in the development of the city, particularly in regard to real estate. This calls for a statement of a few facts.

The savings banks were not organized to become mediums for the development of Baltimore except as their safe investments in securities having a ready market might indirectly expedite legitimate measures for the material advancement of the community. They were planned to afford the means of security for the savings of men and women in moderate circumstances, not in a position to make permanent investments on their own account, but desiring some opportunity to have their small sums of money do in security work bringing some returns. For that class of persons—and there are many thousands of them in Baltimore, representing the productive elements in the community—opportunity for investment in real estate is offered in carefully administered building associations.

Naturally, the money deposited in savings banks must be readily accessible to the depositors, subject, however, to the provision as to notification of intended withdrawals. Of course, the savings banks like bonds, for money invested in real estate directly or in the form of a mortgage is about as fixed an investment as one could desire.

Persistent activity in efforts to compel the mutual savings banks of the city to go more generally into real estate investments creates an impression that savings of the people are desired to create an artificial market for real estate transactions.

The 150,000 depositors in the five savings banks mentioned in the most recent form of the agitation, the men and women principally of the producing element in Baltimore who are occupied every day in doing something, directly or indirectly, for the development of the city, are worthy of far more consideration than the real estate agents, who must surely be comparatively few among the hundreds of men in that occupation, that, instead of leading in a much-needed movement to relieve real estate of its burdens of undue taxation consequent upon an antiquated system and other drawbacks, find it necessary

to make this drive against the savings banks, which means a drive against local thrift.

PREPARING THE NOOSE.

Statements by one of the peregrinating orators of the Industrial Workers of the World, denying that he suggested to striking hotel waiters in New York that they should make it "the unsafest thing in the world for capitalists to eat food prepared by members of their union," cannot minimize the fact that the fundamental policy of the Industrial Workers of the World is a resort to violence, regardless of consequences, even upon individuals not directly concerned in the specific occasion of violence. Announced features of that policy, which, judged by its manifestations in this country and abroad, means anarchy in savage practice, are the following:

That workmen are to use any and all tactics that will get the results sought with the least possible expenditure of time and energy.

The question of right or wrong is not to be considered.

The avenging sword is to be unsheathed, with all hearts resolved on victory or death.

The workman is to help himself when the proper time comes.

No agreement with an employer of labor is to be considered by the worker as sacred or inviolable.

The worker is to produce inferior goods and kill time in getting tools repaired and in attending to repair work; all by silent understanding.

The worker is to look forward to the day when he will confiscate the factories and drive out the owners.

The worker is to get ready to cause national industrial paralysis with the view of confiscating all industries, meanwhile taking forcible possession of all things that he may need.

Strikers are to disobey and treat with contempt all judicial injunctions.

The use of any and all tactics that will get results without regard for the question of right or wrong is in absolute accord with a suggestion that strikers shall make it unsafe for people to eat food prepared by them or their associates. There is not the slightest moral difference, save in degree, between paralyzing the machinery of production and distribution and threatening physical injury to opponents. In advocating either the exponents of the Industrial Workers of the World are preparing the American people to support any law, however drastic, that will make it unsafe for the orators of the Industrial Workers or any of their sympathizers to attempt to live in America.

"THANK YOU."

Only through the assistance of the newspapers can we reach the farmers of Texas and advance the interests of our people.

That is a sentence in a message of thanks sent from Dallas by the Texas Industrial Congress to the MANUFACTURERS RECORD and presumably to every other newspaper which referred to the plans of the Congress for its 1913 prize farm contest. The message, sent on a postal card, cost less than two cents, including typewriting and postage, but it is likely to bring as great returns proportionately in furthering the work of the Congress as the returns to Texas in the way of advertisement of its resources from the \$10,000 or \$12,000 spent annually by the Congress in the farm contests. "Thank you" is one of the easiest things in the world to say, but it puts the other fellow into a state of open-mindedness toward the sayor and keeps open the way for other accommodations.

A Railroad's Co-operation with Farmers.

By W. H. HARRISON, JR.

We hear much about the conservation of our natural resources along many lines, and now everybody who is doing any thinking these days is getting aroused over the importance, even the absolute necessity, of the conservation of our soils; but who ever heard of the conservation of the new settler? It is well worth thinking about.

It has never been my pleasure to meet that large-brained, broad-visioned railway magnate, Mr. B. F. Yoakum, who is at the head of the "Frisco" system of railroads, but I have frequently been greatly pleased to read about progressive ideas he has from time to time put into effect on his roads. In MANUFACTURERS RECORD of November 7 you published a long article entitled "Frisco in Southwest Texas. Working Out Co-operation of Railroad and Farmers." That article told of the establishment of a thoroughly organized agricultural department, with trained experts in the various branches of agriculture to co-operate with the farmers by educating them in what to grow and how to grow it, and furthermore to aid them in marketing their crops.

In my opinion, nothing has ever been undertaken by the railroad that will result in such vast benefit to the farmers along its line as this new move by the Frisco, in aiding its farmers to get good returns from their crops, as touched on in the following quotation from the article mentioned:

"But the difficulties of the farmer do not stop here. These goods must be sold at prices remunerative to him. To accomplish this, in addition to the co-operative sales agency organized last season, a special plan of marketing crops has been devised, which is nothing less than undertaking to distribute shipments in such a way as not to allow them to come in competition with one another in the Northern market, making the price cheaper to the consumer and the net results more to the producer. If this plan works satisfactorily, and it is believed that it will, then the Frisco road, through its agricultural agency, will not only be able to tell the farmer that he can increase his production, but that he can do so without fear of ruinous competition, and with the assurance that sales and profits will be satisfactory. The whole system is one of vast reaching importance not only to the road and to the farmers of this immediate vicinity, but to the country at large. It was probably conceived in Mr. Yoakum's original vision of agricultural development, but is being pushed to success by the painstaking care and tireless energy of his lieutenant, Mr. William Doherty."

There are many ways in which this will benefit the Frisco. In the first place, it will enable their farmers to make money by getting good returns from their crops, and that will hold them on the line and set every last one of them to work trying to get his friends from other parts of the country to come and be neighbors and share in his prosperity. The road can arrange not only to have the farmers combine in growing crops that will return good profits, but will also give good tonnage for them to handle. It will do more to attract good settlers than anything else that could be done. It will hold the goodwill of the settlers along its line, and that is an asset of far more value to a road than some railway officials seem to think.

I remember a conversation years ago

with old Judge Hubbard, who for many years, and until his death, was the attorney for all the lines of the Chicago & Northwestern Railroad in Iowa. During the talk he said that soon after he began his work for the road he was called into headquarters, and the general manager, now the president, told him that he was settling too many claims. He replied that so long as he was their attorney he would settle every claim that came up that was just; that the folks along their road were their neighbors, and that no man and no corporation was big enough to succeed, as he should, without the goodwill of his neighbors. That idea was adopted, and it has ever since been the policy of that road to treat its customers justly, liberally and courteously, and if anyone even asks a question of any of its employees, from the president down to the section men, he will receive a courteous reply. I doubt if any road in the world has the goodwill of more folks than the Chicago & Northwestern Railroad. The Judge remarked that as a result of that policy he had won 102 out of the last 105 cases he had tried, notwithstanding the prejudice that existed in the minds of the average granger jury against corporations.

"The goodwill of his neighbors" is an asset of immense value.

For years past the Frisco has employed Mr. F. S. White, a wise old man, and an expert in various agricultural lines, to travel over the entire system of roads and lecture to the farmers on improved methods of farming. It was the writer's privilege to get Mr. White interested in Southern matters and to induce him to make his first trip of investigation into the South—even going to the trouble to procure passes for him. The time and money spent on Mr. White have been paid back to the South as a whole many times over, as he has ever since devoted his efforts to inducing others to become interested in the South or to improve the condition of the farmers along the Frisco, by preaching diversification to them. I mention this to show that the Frisco has been doing something worth while along these lines for many years, but nothing on such broad lines as at present being worked out in Southwest Texas.

The small truck farmer who consigns his crops to the city commission-houses seldom realizes any profit therefrom. In some cases it is because the commission men are not honest, but in more cases it is because of the improper distribution of the products. Food crops consigned to any large city must be sold at the prices prevailing at the time. If there is an oversupply, it may not bring enough to pay for the freight. It frequently happens that at the same time they are dumping truck crops into the river in the city the same things are selling at such high prices in the country towns that the average citizens cannot afford to buy them.

While I have believed that it would well pay any road to go to the expense of seeing that the small shippers along its line received just treatment from the commission men, it never occurred to me that any railroad president would ever adopt such a broad-gauged plan as has Mr. Yoakum, on the Frisco, to actually take hold and aid the farmers on his road in marketing their crops in a profitable manner, both in proper distribution and

in selling. Nothing will benefit the Southern farmer like having the proper distribution of his crops and have them sold at right prices by those who will give him the full benefit of the sales, less reasonable commissions.

The Agricultural Department at Washington, under the direction of the Secretary, James Wilson, has expended millions to develop Southern agriculture and awaken the Southern farmer to a realization of his wonderful possibilities and to profit by them. I have heard Northern farmers, and bankers also, speak rather bitterly about the great expenditure while no similar work was being done North. The South owes Mr. Wilson a debt it will never be able to pay, and unless it is exceedingly ungrateful it will never cease to sing his praises, because the work he has done will be cumulative, and while it has already been worth millions, it will grow into billions as the years roll around. This work has aroused the Southern States, and they have taken hold also, and so have most of the railroads, and they are doing more or less work for the benefit of the farmers.

The new settler, in a country only partially developed, is of very great value to the country, and especially to the railroad on which he has chosen his new home, and he deserves looking after more than has been the custom in the past. In too many cases he has been turned over to the cold mercies of circumstances and the commission men in the cities. If he was a man of limited means, as is so often the case, and has had his imagination and expectation fired by the alluring prospects of making a fortune in a year or two from truck farming, and goes at it without experience or training, and is then induced to ship his crops, that he can usually grow even with no previous experience, to some commission-house that does not return him money enough to pay for his seed and fertilizer, finds himself broke. In some cases he hunts up a job and waits for another season and sticks to his dream of wealth, grows another truck crop, gets no returns to speak of, and then sends North to friends for money to enable him to move back. I have known of scores of such cases. A very little trouble and expense on the part of the road that possibly spent money to induce them to settle on its line would have enabled them to make a living and develop into valuable shippers for the road and good citizens for the South.

The West was settled up by farmers who went there to farm, and did farm, and if they did not succeed it was no fault of the country. What the South needs today, more than anything else, is farmers. It seems to me that there has been something radically wrong with the efforts that have been put forth to attract immigration to the South. It looks as if the intention was to turn the whole South into a truck garden. Growing truck is all right if one has capital enough to tide him over the seasons in which he loses money, and if he can grow crops on large enough a scale to induce buyers to come and buy and pay for his crops, or if he is working in co-operation with enough other farmers so they will grow enough to bring in the buyers, but with the South not raising its own feed stuff, either for man or beast, and with the Southern farmers devoting their attention to the one crop of cotton, the greatest need of the South is farmers to come down here from the North and farm, as they know how to do, with stock-raising and feed-growing as the basis of their work. It will be many years before the South will grow all the feed that is needed at home, and the farmers in the South will get bet-

ter prices than the Northern farmer can possibly get, and they can grow two crops and a legume crop each year here, and can make more net money than they can up North. Think of 100,000 farmers going from the State of Iowa in one year to the bleak prairies of Canada to grow one crop—wheat. Most of them are young men, but many of them are old enough to remember that they came to Iowa and grew a few crops of wheat profitably and then quit growing it, as they will in Canada. The difference is, that in Iowa they could grow corn and hogs and cattle, and have thereby grown rich, because they had a good market at home and could sell all the surplus they could produce to the Southern cotton planters. They cannot do that up in Canada, and the time is soon coming when those settlers will be coming down South in droves.

Truck farming under ideal conditions of location, of season and of markets has produced immense profits at times, and these instances are held out as a bait and the would-be settler is led to think that he can make a fortune from a garden patch in a short time. He comes, does not make the fortune, and if he cannot get away, remains a disgruntled, dissatisfied citizen and an enemy of the South.

The Northern cities are filled with folks who are barely making a living. They are rushing to and from their work, hanging on a strap, and for half of the year, on account of the cold, in poorly ventilated cars. They lead unnatural lives, die before their time and leave nothing for their families. Tens of thousands of them have sense enough to realize the situation and have their thoughts turned longingly toward the country and a home of their own. They do not know how to grow truck and fruits, and what is the use of trying to make them think they can get rich quick on a 10-acre farm? If they only knew the facts in the case, how easy it is to make a living in the South, they would not need to worry about getting rich, but would come in great numbers to enjoy the living they could make here for themselves and families, with so much greater ease than in the North. In any portion of any country where folks are making a good living there is happiness and contentment. It is prosperity. The South is the natural place for a home, because folks can live more in the open air and have more sunshine. Sunshine and fresh air are just as essential for the best health of humans as for plants. We have more sunshine than they have North, but never the killing heats. On June 21 the day is just one hour shorter than it is North, and on December 21st the day is just one hour longer than North. The Gulf breeze tempers the climate so that one can really enjoy a summer in the extreme South more than North. This is hard to believe until you try it. It is easily verified by keeping track of the weather records during one summer and remembering that at the same temperature it does not feel nearly so hot here as it does North.

The South is the natural home of the cow, the sow and the hen. Every town and city in the South—yes, in the North, too—is crying for more butter, cream and milk, fresh meat and ham and bacon at reasonable prices, and for fresh eggs and for chickens. With green pastures of crimson clover, bur clover, winter vetch, rape, oats, rye, barley, turnips and other crops that one may have all winter by planting them, and besides a spring, summer and fall season long enough to grow two crops of grains or forage, makes the handling of cows, hogs and poultry cheaper in the South than in the North. One can make a good living with a few

of these, provided he will not begin at the wrong end of the deal, and will come and get his home and grow his feed first before he gets his stock. It will not do to raise stock and depend on the North for the feed, because it is too expensive after the Northern farmer has been paid for growing it, and the roads for hauling it, and the different men who have handled it are each paid a profit on it. Come

prepared to get your home and to get ready the first year to make a comfortable living ever after, with less wear and tear than in any other portion of this whole country, but with enough work to properly care for the stock and grow their feed you can hope for a comfortable living, for health and for contentment and happiness.

Mansfield, La.

Close to the Farm Home.

DEMONSTRATIONS BY EXPERTS OF THE SOUTHERN RAILWAY SYSTEM.

By M. V. RICHARDS, Land and Industrial Department, Southern Railway.

A novel yet thoroughly practical "short course" of instruction in dairying, horticulture and domestic science featured more than a score of Southern fairs in the fall of 1912. The instructors were experts employed by the Southern Railway, the "course" was given in exhibition halls or tents specially constructed for the purpose, and the students were farmers and farmers' wives. At every lecture or demonstration given the attending students showed deepest interest. The prevailing sentiment was expressed by one "student" who had interrupted with interested queries a lecture on domestic science. She was an old lady, wrinkled and bent with years of toil, and she exclaimed with a sigh of appreciation, "I wish I had known about this school before. I'm going to stay here until I have to go home."

Corresponding interest was evinced by the farmers who heard experts discuss dairying and horticulture. In addition to lectures and demonstrations, educational literature on subjects of particular importance was given away, and if the applicant for information sought light on some subject not covered in the text immediately available, his or her name and address was taken and bulletins of the Federal and State departments of agriculture were forwarded.

The department of domestic science proved an unending attraction. This work was under the direction of an authority, Mrs. W. N. Hutt, who was assisted by two competent young ladies. The "students" of domestic science were shown how to prepare food properly; lectures were given on modern sanitary conveniences, and demonstrations illustrated the difference between correct and incorrect methods in the kitchen. The "classroom" was a model kitchen, complete in every detail, from range to sink. The arrangement of the kitchen to save needless steps was explained, and the utilization of inexpensive labor-saving devices was emphasized. Cooking demonstrations were accompanied by explanatory lectures, and a practical object-lesson was had in the display of articles of food cooked in the wrong way and cooked properly. "Beefsteak Improperly Cooked" was the warning bulletined conspicuously above a platter containing an island of beef, surrounded and almost covered by a gelid sea of grease. Next to this was shown under the commendatory legend "Beefsteak Properly Cooked" a platter dressed with sprigs of parsley about a well-prepared steak which held out an appetizing invitation.

There were "Snaps Properly Cooked" which were inviting indeed, and an unattractive dish of "Snaps Improperly Cooked." Then there were eggs, the first of which prepared correctly, a bold device informed the curious, took 1¼ hours to digest; a second, not boiled properly, took 3½ hours to digest, and a third, fried slowly in too much grease, took 6½ hours to digest.

Housekeepers also pondered the query

"How do you cook your bacon?" and in front of this prominent lettering were two exhibits, bacon "Right" and bacon "Wrong."

Also "Potatoes Badly Boiled, Soggy," and "Potatoes Well Boiled, Mealy," in mute but forceful fashion illustrated the vast difference between right and wrong.

While the class in domestic science was in almost continuous session daily, Mrs. Hutt and her assistants explained as they worked the solution of innumerable house-keeping problems.

"How to Make Woman's Work Easier" was the text for every lecture, and "A Place for Everything and Everything for Its Place" was one of the important lessons.

Description of a fireless cooker, and simple directions for home manufacture of this labor-saving device always found interested hearers.

"Sunday dinners are a pleasure with the fireless cooker," Mrs. Hutt would explain, "you can arrange the dishes for dinner, put them in the cooker and go away to church with your mind at rest, knowing that when you are home again a good hot dinner will be ready for the table without your changing your Sunday clothes for a working costume."

Simple and entirely practical methods of home-canning were given and its advantages explained, with a detailed lecture on the value of balanced diet. "Do you study a balanced diet for your family as much as your husband studies balanced ration for his cattle?" the lecturer would ask her "pupils," and then would follow a really authoritative analysis of various foods and their respective values.

"Remember, a sink in the kitchen saves doctor's calls," was another point for emphasis.

"Helps for the Homemaker" was the title of an attractive summary of valuable hints all dependent on the primary injunctions, "Make your head save your heels" and "The best was to conserve the health of your family is to serve them fresh, well-cooked food."

"Quizzes" interspersed the lectures and demonstrations, and specific home problems were offered and solved.

A trained man in charge of the dairying demonstration work explained the advantages of improved equipment, showing the practical operation of sanitary milk pails, strainers, coolers and aerators, milk scales, butter fat testers, separators, churns, butter packers and carriers.

In addition to these practical aids to dairymen and lectures on dairying problems, literature was distributed on "The Feeding and Management of Beef Cattle," "Pointers for Poultrymen," "Dairying in the South," "How to Destroy the Cattle Tick," "Aids to the Prevention of Hog Cholera," "The Use of Lime for Soil Improvement," "The Southeastern Farmers' Opportunity," and kindred subjects.

"Are you farming for profit or just to make a living?" was one pertinent

query on the walls of the dairying "classroom," where another placard informed the visitor "if some of these implements or utensils are too expensive for your pocketbook the attendant will tell you how cheaper ones may be made at home."

Fruit growers who "matriculated" in the horticultural department heard an expert describe proper cultural methods, how to combat fungus growths and diseases and how to prepare sprays for various enemies of the growing fruit. "How to Trim Fruit Trees" was the subject of one lecture, and "How and When to Spray," another.

Pruning tools were demonstrated; standard varieties of apples were displayed and their qualities explained; fruit properly sprayed and fruit not sprayed gave visual evidence of the advantages to be had by correct cultural methods, and authoritative literature was distributed.

The school held sessions at three fairs in Virginia, two in North Carolina, two in Tennessee, six in South Carolina, two in Georgia and seven in Alabama and Mississippi. Universal interest was shown and attention during lectures and demonstrations, the intimate problems offered for solution and requests for educational literature proved the practical benefit of this campaign for more profitable and more comfortable rural life in the Southeast.

The winter "session" closed at Columbus, Ga., the first week in December after service at 23 fairs with a combined attendance of 730,000, nearly three-quarters of a million people. Reports from directors show 273,100 persons enrolled as "students," and personal interviews were had with 70,500 people seeking light on particular farm problems. In all, some 60,000 pieces of educational literature were given away.

The educational work of the Southern Railway in this particular, in its department of farm improvement, which has expert agriculturists without charge at the command of farmers is one of the prominent factors in the development of the Southeast.

Big Florida Land Purchase.

The Chambers Land Co., Kansas City, Mo., wires the MANUFACTURERS RECORD as follows:

"Purchased 40,000 acres adjoining Lake Kissimmee, Fla., on south and east, involving approximately \$500,000. Excellent quality citrus fruit and vegetable land, same being dark sandy loam and muck."

It is the purchaser's intention to develop this property by colonization, and details will soon be announced.

Growth of Texarkana.

In his annual report to the Texarkana (Ark.-Tex.) Board of Trade, Secretary V. E. Buron stated that during the past year \$167,000 was spent there upon municipal improvements, \$1,027,000 upon new buildings and additions, including 200 residences; three manufacturing enterprises were established and 64 business houses, and that buildings and other improvements contemplated for 1913 represent an aggregate investment of \$1,325,000.

For Pecan Culture.

The Chamber of Commerce of Albany, Ga., Eugene B. Adams, secretary, is working through one of its adjuncts, the Albany District Pecan Exchange, to develop fully the potentialities of that region for pecan growing. In that district more than 50,000 acres of land have been planted in pecans within the past few years.



DREDGE AT WORK.

BLASTING UNDER WATER.

TYPE OF CONCRETE BRIDGE.

Community Value of Ditch Construction.

[Special Correspondence Manufacturers Record.]

Louisville, Ky., January 10.

Illustrating the enormous benefits frequently accruing from comparatively simple and inexpensive construction projects, the drainage work which has been in progress around Louisville, and which is perhaps typical of the efforts being made in this direction all over the South, is of general interest.

In the southern and southeastern parts of Jefferson county, on the northern boundary of which, along the Ohio River, lies the city, is an area of something like 106 square miles of land which is drained by two creeks, Mill Creek and Pond Creek, and their tributaries.

The water from these streams, and from the territory drained by them, eventually finds its way, by slow degrees, to the Ohio River, several miles to the west, into which they empty; but their courses are crooked and sluggish, and the channels full of obstructions, and for many years the area referred to has been almost annually rendered uninhabitable by the winter rains and snows, which the streams are unable to carry off. In fact, so far from doing efficient drainage service, the streams fill to overflowing and constitute a menace rather than a safeguard.

At the headwaters of Pond Creek and some of its tributaries, to the southeast of the city, is a district, comprising some 50 square miles, which has long been known as "the wet woods," by reason of its chronic state of swampiness. As its name indicates, it was until recently heavily wooded, but most of the timber has now been cut off, and it is merely a bare and dismal area, practically useless, in spite of its fertile soil, the home of frogs and wild fowl, besides a few former charcoal burners and others of that tribe who live there between floods.

In 1909 citizens interested in the redemption of the great area immediately south of the rapidly-growing city had procured the making of the necessary surveys and a report on the cost of a ditch for surface drainage of the land along Mill Creek, which was then practically a part of the city, comprising several well-settled suburbs, such as Oakdale, Beechmont, Southern Heights, Highland Park and others, and, presenting to the Fiscal Court of Jefferson county the engineer's figures and estimates, procured an appropriation of \$40,000 to begin the work as a public improvement on the part of the county. The immense increase in taxable values from the land to be drained, as well as the improvement in sanitary conditions, made the work one of sufficient value to the public at large to warrant its being under-

taken in this manner without expense to the property-owners.

The southern suburbs referred to presented the most immediate emergency, by reason of the fact that while comparatively thickly populated, they were subject to yearly overflows, flooding cellars and rendering sewage disposal impossible. From this cause conditions in that vicinity became almost intolerable in the rainy season, and the only remedy apparently lay in the construction of the ditch.

Louisville lies in a great bend of the Ohio, where it sweeps from west to south. The suburbs named lie several miles directly south of the city proper, and between them and the river, to the west, is a wide stretch of fertile gardening land which is also drained by Mill Creek, and which also suffers from frequent overflows. This offered the first work to be undertaken, the Pond Creek ditch, lying some miles further south, being a parallel work of considerably greater magnitude.

The Mill Creek ditch was surveyed along the general course of the creek from a point on the creek near the outlying suburbs a distance of some six miles to a point where the course of the creek becomes parallel with that of the river. Here a two-mile cut was to be made directly west to a smaller stream, Cane Run, emptying into the river, and disposing of the drainage waters of the ditch. At the head of the ditch were to be gathered a number of laterals, some covered sewers and some merely smaller drainage ditches, the whole well designed to relieve the area immediately south of the city of the annual washouts which had theretofore made life there too uncertain and uncomfortable for the average citizen to enjoy.

With the first appropriation of \$40,000, and under the direction and supervision of S. C. Creelius, the engineer who designed the work, contracts were let and the dirt, or rather the mud, began to fly, and has continued to do so on one or the other of the two projects referred to up to the present time. There were three different contractors on the Mill Creek ditch, the first being C. H. Dishman of Henderson, Ky., who did the greater part of the work, excavating in all in the neighborhood of 224,000 cubic yards, for which he received \$75,000. The remainder of the 265,000 cubic yards taken out was about equally divided between T. B. Miller and the Henry Bickel Company, both of Louisville, the total cost of the work to this date, complete except for a few unimportant laterals, being \$90,000.

The drain is all open earth ditch work,

without reinforcing or frills of any kind. On Mill Creek, as on the second part of the work, the problem was more the straightening and deepening of natural watercourses for drainage purposes than the construction of an entirely new channel. The Mill Creek ditch, so far as completed, is about nine miles in length, and the addition of further laterals will increase it to 10 miles. The deepest cut necessary was 27 feet, and the size at the bottom ranges from 7 to 10 feet, with an average slope of $1\frac{1}{2}$ to 1. In the course of the work it was necessary to construct 20 bridges to carry public highways and farm roads over the deepened channel of the stream, the usual form of construction being steel with concrete abutments, although there were a few reinforced concrete bridges on the more heavily traveled public roads. The excavation was done by means of an ordinary drag-line outfit, run by steam and operating a $1\frac{1}{2}$ -yard bucket, which under favorable circumstances handled 1000 yards of material a day.

A striking object lesson was given as to the efficiency of the drain at the very moment of its completion. The owner of one of the suburbs to be drained had anticipated the completion of the work slightly by the excavation through his property of a number of lateral ditches, and these were filled with water and the whole property flooded by heavy rains occurring before the main channel was open. But when the last of the main ditch excavation was done and the laterals connected up it was only a matter of a few hours before the property in question was quite dry, and it has remained so ever since, as have the other suburbs in question.

The larger ditch was surveyed under authority of the Jefferson county fiscal court in June, 1910, and Engineer Creelius made his report upon the project in the following September. This work embraces the watershed covering most of the land between the city of Louisville, Jacob Park, seven miles to the south, and the range of hills south and southeast of the city, in all about 50 square miles, with an additional area of about 30 square miles tributary to the same streams further to the east. In the area above Jacob Park a privately organized drainage company had already expended considerable sums on the north and south forks of Pond Creek and several laterals; this work, however, failed to accomplish the desired result in the drainage of the swamped area, especially the "wet woods," for the reason that the grades fixed were too light, and no outlets were provided. It was the purpose of the new work to provide an outlet for these and straighten the main course of the stream still further down, thus providing permanent and efficient drainage for the whole area.

The proposed work, with its tributary lateral ditches, aggregated 30 miles in length, and is designed to collect the waters of Fern Creek, Fishpool Creek and Mud Creek, three small tributaries of Pond Creek, through their own straightened and deepened channels, following the work already done in that direction into the main stream of Pond Creek, or rather of the big ditch which the finished work will make of it.

Appropriations are somewhat hard to get, however, and, as a result, only eight miles of the main channel have thus far been excavated. The first section is a six-mile length near the mouth of the stream, going upstream from a point six miles from its confluence with Salt River not far above where that stream empties into the Ohio, the lower stretch being straight enough to render artificial aid to the natural drainage unnecessary. Further up, and near the forks which have already been ditched, as described above, is another piece of straightening, a two-mile cut across a particularly unruly bend of the stream. With seven miles more of work on the main stream, the supervising engineer promises results that will make the whole southeastern section of the country a different place. Already the work done on the lower part of the stream has rendered secure the land lying on its banks, with the result that annual crops can now be harvested and counted on as a practical certainty, where formerly the certainty lay rather in the direction of depressing and disastrous overflows.

The principal work yet to be done is the connection of the old work on the forks with the newly-constructed channel of the stream, in order to begin the drainage of the area through which the forks and their tributaries pass; for while the results would not be accomplished by this that the completed ditch will give, by reason of the extreme crookedness that remains to be eliminated in some parts of the stream, some relief would be afforded, perhaps sufficient to encourage the landowners in the affected area to take some steps on their own behalf. As indicated, the project has thus far gone along on public funds, save for the donation of practically all of the right of way. No cost has been incurred by the landowners, and no assessments laid against their property.

Under the Kentucky drainage statute, however, which is modeled after the efficient and well-tested Missouri law, it is possible to form voluntary drainage districts, by consent of a certain proportion of the property-owners, issue bonds and expend the proceeds in the construction of the necessary drainage ditches. The present outlook, however, is that the county will in due time finish the work, as funds become available, and in the

meantime the landowners will suffer annual overflows with what patience they may, in the assurance that their lands will ultimately be increased twentyfold in value by the municipality without the expenditure of a cent on their part.

R. H. and G. A. McWilliams of Chicago have done all of the work on the Pond Creek ditch, excavating about 400,000 cubic yards of earth at a cost of about \$75,000. It is estimated that a further expenditure of \$105,000 will be required to complete the ditch up to the forks, and that \$70,000 more will drain the forks themselves and pay for the construction of a few laterals. Four bridges have thus far been constructed, of steel with concrete abutments. The contractors used on the work a dredge with a 1½-yard dipper, handling about 800 yards a day.

The natural fall toward the river from the higher part of the land to be drained is about one foot in 2000, which is ample for the distance. Toward the mouth of the ditch the excavation measures 32 feet on the bottom, and at the fork it is 27 feet, with a one-to-one slope, making it something over 50 feet wide at the top. All of the land is 20 to 40 feet above the high-water level of the river, and no trouble from back water is to be anticipated, as the ditch is sufficiently high to be above even the most extraordinary floods.

The work on both ditches has been emphatically endorsed by the State Board of Health, by reason of the obviously beneficial effect which it has had and will have upon the health not only of the residents of the immediate neighborhoods, but of the whole city. Before the extension of the city sewers which went with the growth of the city southward, malaria was very common in that part of Louisville, and even now the swamps of the "wet woods" and other portions to be drained by the Pond Creek project breed mosquitoes in millions, and the relation of these pests to malaria, and vice versa, is well understood.

Categorically, the benefits certain to be achieved by the completion of the second ditch, considered in connection with the first, are as follows: The general improvement of the sanitary condition of the city; the increase by \$3,000,000 of the value of 106 square miles of property adjacent to Louisville; the availability of the hills to the south of the city as residence property; the reduction in the cost of building and maintaining roads in the district formerly subject to overflow.

With these benefits already partly accomplished and their full realization well in sight, the completion of the remainder of the work may be expected during the coming year. G. D. CRAIN, JR.

Developments at Freeport.

[Special Cor. Manufacturers Record.]

Freeport, Tex., January 13.

The Des Moines Bridge & Iron Co. has completed the 50,000-gallon steel storage tank for the Freeport water-works system. The water supply will come from an artesian well that has been drilled to furnish the water at the rate of 100 gallons a minute.

W. L. Griffin, line construction superintendent for the Southwestern Telegraph & Telephone Co., with a crew of men commenced work last week laying a seven-pair submarine telephone cable across the Brazos River to connect on the east side of the river with the company's trunk line to Houston.

R. W. Latham, the electrical engineer, has just finished the erection of 20 additional electric-light poles, and has put in 18 additional street lamps.

Barr & Tobey, a newly-organized lum-

ber firm in Freeport, have let contract to F. N. Hefflin for their office building, storage sheds and yard.

Building operations are still active here, and were not affected by the recent cold snap. Construction of a hardware store, a general merchandise store and a tin-smith's shop were practically completed last week. Among the new buildings recently started are two five-room bungalows in the residential section by C. P. Kendall of Portland, Tex., and a cigar store and restaurant building in the business district.

The name Freeport National Bank has been reserved for a Federal bank to be established in this city, for which a charter has been applied.

Jefferson and Marion County.

Progressive Club,

Jefferson, Tex., January 8.

Editor Manufacturers Record:

In the mild climate of Jefferson and Marion county we have no extremes of either cold or heat. It makes no difference what month the homeseeker reaches here, he can have green vegetables from his soil in from 30 to 40 days. The climate is such that farming outdoors may be carried on every day in the year.

We have abundance of rainfall and plenty of moisture, and it requires but little cost to conserve the moisture in the soil in sufficient quantities to meet the requirements of all crops. This soil is capable of producing a great variety of crops. Corn and cotton are always a sure crop here and never known to make a failure; fruits, such as apples, pears, peaches, plums, figs, strawberries, blackberries, grapes and scuppernongs. For the growing of such vegetables as Irish and sweet potatoes, beans, turnips, cabbage, beets, tomatoes, pumpkins, watermelons and canteloupes our lands are best adapted.

Our lands are adapted for a large line of forage crops, such as sorghum, millet, oats, cowpeas and stock peas, peanuts and Bermuda hay, and any section of country where so many feed crops can be so cheaply produced is a country for great profit in live-stock.

This country, on account of its pastures and running branches, its grazing hills and fertile bottoms, is a great country for cattle to thrive and offers great opportunity for dairying. There is a ready market in Jefferson for all that can be produced from a dairy industry, and the laborers in the sawmills and tie camps would easily consume the greater part of what could be produced on the farm dairy. The lands are to a great extent owned in large tracts, but the owners are anxious to cut up these into smaller farms and sell these farms to actual settlers who will live on the farms and cultivate them. Good farmers are badly needed in all parts of Texas.

SAM E. EBERSTADT, Secretary.

Building at Atlanta.

[Special Cor. Manufacturers Record.]

Atlanta, Ga., January 11.

There is perhaps no better gauge of the industrial growth of a city than the amount of building it does. Figures compiled by City Building Inspector Ed. R. Hayes show that during 1912 in Atlanta permits were issued to the amount of \$9,987,444, an increase of \$3,002,444 over 1911. The figures show that 1183 dwellings were erected at a cost of \$2,924,303; 13 apartment-houses at a cost of \$723,000; six churches at a cost of \$56,700; four factories at a cost of \$56,200; 85 business buildings at a cost of \$1,008,030; 189 miscellaneous items at a cost of



THE CITY HOSPITAL WHEELING, W. VA.

Under construction for the city; five stories; fireproof; English style; light brick, with sandstone or terra-cotta trimmings; accommodations for 140 patients; passenger elevator; airing balconies, refrigerating plant; cost \$262,000; architect, Edward F. Stevens, Boston; associate architect and superintendent of construction, C. W. Bates, Wheeling; contractors, James Stewart & Co., Pittsburgh.

\$347,787; seven public buildings at a cost of \$3,646,000; 2039 additions and repairs at a cost of \$1,056,686. When the present year comes to a close the increases over the different lines of industrial activities will no doubt surpass those made in 1912. The architects and builders are expecting a much larger increase in building construction during the present year. Already—and the new year is not yet two weeks old, announcements have been made that a \$2,500,000 car-wheel concern will erect a plant, and that two apartment-houses will be erected at a cost of nearly \$500,000. ROY G. BOOKER.

Wants an Oil Mill.

Progressive Club,

Jefferson, Tex., January 6.

Editor Manufacturers Record:

Jefferson wants to secure an oil mill, and offers finest advantages. First, we have a river which has the very best water for boilers and manufacturing purposes, and we have the Texas & Pacific, Missouri, Kansas & Texas, Jefferson & Northwestern railroads, which afford every facility for bringing seed to the mill and shipping the product of the mill. An oil mill here would bring a feeding pen to fatten cattle, and we have fine pastures and pens, with the river all along the pens where stock can get water at any time.

A mill here would command all the seed from the Jefferson & Northwestern Railroad, and, with a buyer at Linden, the terminus of the road, could easily get all the seed from that point. We could easily get all the seed to run a four or six-press mill the full time during the season.

Our people want a mill here, and are willing to co-operate and encourage it. The Jefferson Progressive Club will donate the buildings.

I would like to be put in touch with oil mill promoters, for we have the best and most reasonable proposition to offer.

S. E. EBERSTADT, Secretary.

The White Companies Organize.

At their recent meetings the J. G. White Engineering Corporation and the J. G. White Management Corporation of New York elected directors and organized with strong boards and officers.

The directors of the Engineering Corporation are Harry Bronner of Hallgarten & Co., James Brown of Brown Bros.

& Co., F. Q. Brown of Redmond & Co., Douglas Campbell of Campbell, Harding & Pratt, Geo. C. Clark, Jr., of Clark, Dodge & Co., Bayard Dominick, Jr., of Dominick & Dominick, A. G. Hadenpyl of Hadenpyl, Hardy & Co., T. W. Lamont of J. P. Morgan & Co., Capt. Marion McMillin of Emerson McMillen & Co., J. H. Pardee, president the J. G. White Management Corporation; E. N. Potter of Potter, Choate & Prentice, Frederic H. Reed, vice-president J. G. White & Co., Inc.; Chas. H. Sabin, vice-president Guaranty Trust Co.; Frederick Strauss of J. & W. Seligman & Co., Moses Taylor of Kean, Taylor & Co., George H. Walbridge of Bonbright & Co., E. N. Chilson and C. E. Bailey. The officers are: J. G. White, chairman finance committee; Gano Dunn, president; E. G. Williams, A. S. Crane, H. A. Lardner, vice-presidents; H. S. Collette, secretary, and R. B. Marchant, treasurer.

The directors of the Management Corporation are Cecil Barret of Spencer Trask & Co., F. Q. Brown of Redmond & Co., P. M. Chandler of Chandler Bros. & Co., Philadelphia; Arthur Coppel of Maitland, Coppel & Co., Gano Dunn, president the J. G. White Engineering Corporation; George E. Hardy of Hadenpyl, Hardy & Co., R. G. Hutchins, Jr., vice-president National Bank of Commerce; R. L. Montgomery of Montgomery, Clothier & Tyler, Philadelphia; John T. Pratt of Campbell, Harding & Pratt, Frederick Strauss of J. & W. Seligman & Co., H. R. Tobey of N. W. Halsey & Co., and J. G. White, president J. G. White & Co., Inc. The officers are: J. H. Pardee, president; F. H. Reed and S. L. Selden, vice-presidents, and T. W. Moffat, secretary and treasurer.

The parent organization, J. G. White & Co., Inc., controls the new companies and will continue as an active financing and owning company.

Sugar-Cane Syrup.

J. Ralston Cargill of the Hardaway-Cargill Company of Columbus, Ga., writes to the MANUFACTURERS RECORD that conditions were ideal the past year for the production of sugar-cane syrup in the Southeast, and as a result a very heavy crop has been marketed. The quality this year is unusually good, there being very few off grades in comparison with the output of the previous year.

JACKSON'S QUICK GROWTH.**Factors of Development in Mississippi's Capital.**

[Special Cor. Manufacturers Record.]

Jackson, Miss., December 29.

In the early nineties Jackson was a town of some 4000 or 5000 inhabitants, not built, but just straying about over several hundred acres of common, without plan or continuity. Jackson of the present time has more than 25,000 population, and its solid industrial and business elements, its well-paved streets, its miles and miles of splendid sidewalks, its solid, stately buildings, its everywhere evident hustle and bustle of activity, present to the observer an object-lesson of greatest interest as typifying man's efforts at town-building.

There are but few men in business in Jackson or at the head of affairs, public and private, who are not natives, either of the State or of some of the Southern States. Hence it is seen that Jackson can be said truthfully to be a representative typical Southern city. There is little of the cosmopolitan air about Jackson, such as is seen and felt on every hand in most cities of the West and in many of the municipalities of other Southern Commonwealths. Knowing this, one is

the cities of the South that really count as assets.

Though, as the capital of the State, Jackson has reason to be proud of that

occupied, but calls your attention to these many other things that are reckoned as substantial assets forming integral, potential parts of the whole.



STREET SCENE AT JACKSON.

years ago, its chief distinction. In a little more than a decade it has risen from fifth city in the State in population to first place. The census of 1900 gave the city 7800 population; the census of 1910 showed 21,262, an increase of nearly three times. Jackson citizens claim about 28,000. A recent census taken by the telephone company shows nearly that figure, including suburbs.

From figures shown me at the Jackson Board of Trade, the claim is established that, population considered, there have been in the 10 years last past more manufacturing establishments in or near Jackson than in any other city of the United States.

There is now being constructed here a syrup refinery that will, it is calculated, be capacitated to handle the entire cane product of the State.

All of Jackson's business streets have been splendidly paved; many of its important residence streets have been paved and construction work is rapidly being forwarded on many others of the latter class. Various forms of paving are being used, these including creosoted wood block, bitulithic, concrete, granitoid, brick, pyrites, asphalt and petrolithic. Forty miles of concrete sidewalks ex-



NEW STATE CAPITOL AT JACKSON.



A MISSISSIPPI WHEAT FIELD.



HEREFORD CATTLE RAISED NEAR JACKSON.

all the more impressed by the fact that in less than 20 years Jackson has thrown off its village airs and has emerged from its 30 years' dream after the great struggle of the sixties to take its place among

splendid thing of architectural beauty, the capitol building itself, it is not unreasonably proud. It does not lay undue or overshadowing stress upon that structure, now about nine years completed and

Jackson was named after "Old Hickory," the hero of New Orleans. It was made the capital of the State in 1822, and, as has been the case with so many capital cities, that was until about 10

tending in every direction have taken the place of the old worn-out brick kind.

The city has expended \$300,000 on its water-works system, which it owns, and will soon have the entire system served

with artesian water instead of that from the Pearl River so long used.

With 45 miles of water mains, 30 miles of sanitary sewers, 10 miles of storm sewers and 475 fire hydrants, the city is well supplied from a sanitary standard.

More than \$1,000,000, I was told, represented the amount expended by the city in the past 10 years.

For 70 years Jackson was the capital of the State before it woke up to the possibilities around it, and the younger generation determined to have a city. The assessed valuations of Jackson total \$13,000,000.

The city has a fine law school, five library colleges, two commercial colleges and six graded schools as constituting its educational assets.

With one Carnegie Library already, the city has recently been given another donation of \$25,000 to erect another library in the business section.

The old capitol building in which the ordinance of secession was passed January 7, 1861, is still standing as a historical landmark. It was recently used to house the State fair.

Until as recently as 1899, Jackson citizens were served by a mule-drawn street-car line. It now has a good electric service.

Very recently a street improvement bond issue of \$99,000 was taken by a new York firm, their bid being accepted over those of half a dozen Southern firms. Very much of the internal improvement made has been accomplished with the city's natural resources, and it is claimed by men of Jackson with whom I talked that the city's bonded indebtedness is the lowest in the State. This constitutes one of the chief assets of Jackson. There is a fixed determination to do things largely with the money in hand from general resources, and to borrow as little as possible, making for solid business administration, conservative, yet withal progressive.

Telephone and telegraph wires are nearly all put underground here, and the stranger sees very little of the overhead wire.

As evidence of the solid conservatism of Jackson, there is the showing made by its banking institutions, all of which have large surplus and undivided profits, relatively, with the capital invested.

Jackson has two large department stores, one a six-story building occupying a quarter block that would do credit to a city of a quarter million.

The first administration under the commission form of government goes into effect January 6, and with J. S. Taylor as Mayor, Hubert Spengler and R. M. Taylor as commissioners, Jackson citizens are anticipating much more solid improvement, though that would appear difficult to accomplish in the light of what has been done.

Private building operations in Jackson for the years 1911 and 1912 have approximated \$1,000,000.

In the two years last past the city's outlay by the engineering department has reached a total of \$432,000 for streets, sidewalks, curbs, sewers, etc.

The city, county and State tax rate is 31½ mills.

A total of 80 manufacturing and industrial enterprises in Jackson is cited as evidence of the phenomenal growth of 10 years. There are several very large hardwood factories, the managers of which stated to me they had contracted their entire outputs far ahead, in some instances for more than a year beyond January 1, 1913. Jackson also has a fertilizer factory doing a fair business, though

somewhat restricted at present by the inroads of the boll-weevil. There are two or three large lumber mills doing a tremendous business, principally in milling-in-transit trade.

I found a disposition on the part of a good many good and influential citizens, even in the face of this marked evidence of industrial wealth and the benefits thus wrought to the city, to minimize industrial growth and to contend that their activities should be devoted more largely to getting greater results in the way of farmer immigration. Some potential units of this element of citizenry have already been turned toward and into the Jackson territory. C. F. DRAKE.

The Birmingham Iron Market.

[Special Cor. Manufacturers Record.]

Birmingham, Ala., January 13.

The general condition of the pig-iron market is practically the same as last reported. From all quarters of the trade more or less tonnage for delivery over the first half of the year is pending, but the buying interests are quite disposed to follow a very conservative course, and as a result the sales being made are small in the aggregate comparatively. The total tonnage involved in the past week's transactions is probably less than 5000 tons. In this, carloads and lots of 100 to 150 tons each for early shipments were the principal considerations. The prices received in the week are about in line with those of the week previous, a basis of \$14.50 per ton at Birmingham being the highest consideration, with a \$14 Birmingham basis paid in some cases. All quotations are being governed by the territory into which shipment is to be made, and by the delivery required. To certain consuming points it is understood that producers in Tennessee have made a concession of 50 cents per ton below the Birmingham schedule for any delivery prior to July 1. The effect of such quotations on local prices has not been indicated, and it is quite likely that only a limited tonnage is available at the low figures referred to. There is no doubt that the minimum for any Birmingham brand is a basis of \$13 per ton for No. 2 foundry, while a basis of \$14.50 per ton, and even \$15 per ton, is being adhered to by certain of the larger interests. The local make of foundry iron has just been reduced by the change of operations at the Alice furnace of Tennessee Coal, Iron & Railroad Co., leaving 16 stacks in blast. Against this the aggregate tonnage of foundry grades on hand January 1 was 60,000, or less than 4000 tons for each of the 16 stacks now in operation. The accumulation was increased some 10,000 tons during the month of December, which is accounted for by the suspension of shipments during the holidays. The stock on warrant yards was the same on January 1 as on December 1, and the same is true of the basic accumulation. The accumulation of charcoal iron has been materially reduced, with sufficient unfilled orders in hand to take care of the output through the first half. Additional tonnage of this last is pending, and will probably be placed within the week. Of the pending inquiries for foundry iron, the most significant is that of a large pipe manufacturer, who requires 3500 tons each of No. 3 foundry and gray forge for delivery in the first half. The former grade is very scarce, while the shortage of the latter is so pronounced that probably two furnace interests would be willing to contract deliveries. As has been the case for some months, No. 4 foundry, gray forge and mottled, when required for immediate shipment, are quotable at figures governed entirely by the local furnace conditions,

but for advanced delivery No. 4 foundry is quoted by the majority of producers at a differential of 50 cents per ton on the No. 2 foundry price. With the market but fairly active, the exact status of prices is hardly determined, but there is no good reason for a revision of the prices last quoted, and for the first half, or for prompt delivery, the figures below are considered a fair representative per gross ton f. o. b. cars at Birmingham furnaces. The quotations are: No. 1 foundry, \$14.50 to \$15; No. 2 foundry, \$14 to \$14.50; No. 3 foundry, \$13.75 to \$14.25; No. 4 foundry, \$13.50 to \$14; gray forge, \$13.25 to \$13.75; mottled, \$13.25 to \$13.75; standard basic, \$14 to \$14.50.

In the finished material market considerable interest is given to the recent advance in the scale of wages for puddling, which has become effective. No change in prices has been reported locally since the last revision, but with the present level of prices for basic maintained and the continued increase in the operating costs it is quite likely that another advance will soon be announced. The local capacity is being put into operation as fast as repairs commenced during the holidays are completed, and within another week the output will be practically the same as early in December.

The interest in wrought, steel scrap and relaying rails increases, and within the past 10 days local old material dealers have disposed of very satisfactory tonnages. The prices being received are hardly equal to expectations, in view of the higher prices being quoted for finished products and for pig-iron, although quite a large tonnage of assorted grades has been assembled on local yards within the past few months at very attractive figures and the margin afforded dealers is close to normal. At present dealers are adding to the stocks where practicable, but are not disposed to engage tonnage at higher figures than last paid. Nominal quotations for the several wrought and steel grades are about as below per gross ton f. o. b. care here, viz.:

Old iron rails (light), \$15.50 to \$16.
Old steel axles (light), \$15.50 to \$16.
Old iron rails, \$15.50 to \$16.
No. 1 railroad wrought, \$13.50 to \$14.
No. 2 railroad wrought, \$11 to \$11.50.
No. 1 country, \$9.50 to \$10.
No. 2 country, \$8.50 to \$9.
No. 1 machinery, \$11.50 to \$12.
No. 1 steel, \$11.50 to \$12.
Tram car wheels, \$11 to \$11.50.
Standard car wheels, \$12.50 to \$13.

Local manufacturers of cast-iron water pipe have just been favored with specifications for some 4000 tons each for Kansas City, Mo., and Seattle, Wash. The price consideration for this tonnage is not made public, but as a result of the contracts some additional producing capacity will be put into operation immediately. In this connection the American Cast Iron Pipe Co. announces the transfer of W. J. Lyman, Southern sales manager at Birmingham, to Dallas, Tex., and the appointment of Paul Ivey, formerly Western sales manager at Kansas City, Mo., general sales manager, with headquarters at Birmingham. Altogether, the outlook in this market is considered exceptionally good, but the status of prices depends very largely upon developments in the pig-iron market. At present 4-inch water pipe is very firm at \$24.50 per net ton f. o. b. care here, with \$22.50 per net ton f. o. b. care here being maintained for 6-inch sizes and up. Gas pipe is quotable at an advance of \$1 per ton over the figures asked for the water-pipe sizes, and specials are quoted at \$47.50 to \$55 per net ton, depending upon the size and nature of the requirement.

The supply of coal cars is more satisfactory, and the market, so far as spot prices are concerned, is affected accordingly. The aggregate movement is still very short of normal, and in many cases the mines are not operating more than half time, owing to the lack of cars. Reports to the State Mine Inspector for the year 1912 have not all been received, but so far it is indicated that the production is very close to 20,000,000 tons, or that the several productions have in many cases been increased 100 to 150 per cent. over the production for the year 1911.

Foundry and furnace coke is still very firm, and the chances are that contracts for this year will be considered only at the higher figures now being asked for spot shipments.

Growth at Albany.

Chamber of Commerce.

Albany, Ga., January 10.

Editor Manufacturers Record:

Albany has developed during the past 10 years from a town of 4000 people to a city of 15,000, a retail and wholesale supply point of South Georgia.

The year 1912 saw the opening of many enterprises in Albany. The Albany Transit Co. has been organized, and work started on Albany's new street-car system. The city has built a municipal gas plant, which is completed and running.

Work has been started or work completed on structures representing more than \$325,000.

The first mile of white-way lights was completed at a cost of \$5000, and there was an expenditure of \$10,000 on a city park; the purchase of an automobile fire truck; the expenditure of \$35,826 for street paving; lower ice rates, and lower electric light and gas rates.

During the year the city disbursed \$106,000 bond issue as follows: Gas plant, \$52,000; cemetery, purchase of land, \$10,000; street paving, \$12,500; water mains and sewers, \$12,500, and other items for parks and other improvements. The total bonded indebtedness of the city is \$270,500.

The greatest single development being carried on in Albany is the pecan industry. In the Albany district 50,000 acres have been planted in pecans during the past few years, and within the past 30 days approximately 18,000 acres have been sold and will be planted in pecans during this season. Forty-five companies are developing the commercial pecan groves and are advertising their properties, and naturally advertising Albany, in every State in the Union. On three separate occasions a solid carload of investors have visited Albany to inspect the pecan properties. The pecan industry represents an investment at present of over \$10,000,000. Large sales have been recorded recently of \$200,000 for one grove of bearing pecan trees, \$80,000 for an 80-acre grove, \$18,000 for 45 acres of trees averaging two years old.

E. B. ADAMS, Secretary.

Automobiles on Concrete Road.

F. C. Cowan of Dahlonga, Ga., according to a report from Gainesville, in that State, is interested in the organization of a corporation to be called the Dahlonga & Gainesville Transportation Co., which is to establish an automobile line between the two places. A concrete road or track on which both passenger and freight automobiles will be run is to be laid and regular schedules established. The estimated cost of the road and equipment is \$80,000, and stock is to be sold to cover the expense. Charter is to be obtained.

TWO LINES TO SAN ANTONIO.

New and Rich Regions Being Opened Up by Railroad Construction.

[Special Cor. Manufacturers Record.]

Chamber of Commerce,

San Antonio, Tex., January 10.

New agricultural territory in West and Southwest Texas tributary to San Antonio will be opened by the construction of the San Antonio, Uvalde & Gulf Railway, one branch of which has been completed, and by the building of the San Antonio, Fredericksburg & Northern Railway, just begun. For the first, San Antonio raised a bonus of \$100,000, and for the second a bonus of \$50,000.

The portion of the San Antonio, Uvalde & Gulf Railway that has been completed is, in effect, an extension of the Crystal City & Uvalde Railway to San Antonio. This latter line was originally built between Uvalde and Crystal City, west of San Antonio, opening to farmers the fertile lands of Uvalde and Zavalla counties. Later it was extended southward to Carrizo Springs, in Dimmit county, and

soil a fertile, sandy loam, much of it in the proven artesian belt. The region shows strong indications, too, of natural gas, oil and lignite coal, and considerable prospecting is being done in each of these lines.

The San Antonio, Uvalde & Gulf Railway is now preparing to build its extension to the Gulf of Mexico. Both Corpus Christi and Aransas Pass are raising bonuses for the road, and it is probable it will be built to both points. It is expected the line to the coast will be built within the year and the line to the Lower Rio Grande Valley will be the next work to be done. The Gulf line will leave the main road from a point near Pleasanton, and the Rio Grande line will make its connection at some point in the southwestern part of Atascosa county.

San Antonio raised the bonus of \$50,000 for the San Antonio, Fredericksburg & Northern Railroad with the understanding that the headquarters for this new line would be in San Antonio, but afterwards it was learned that a State law

yond. Foster Crane, who has handled several large contracts for the Hill lines in the Northwest and also for the Harriman system, and who has recently completed a large system of irrigation canals for the Medina Valley Irrigation Co., is the general contractor on the job.

It is the purpose of the builders not only to extend the railway into San Antonio at some future time, but also to build northwest from Fredericksburg into a country that has long been given over almost entirely to ranches, but which is becoming known as splendid farming land. This will bring back to San Antonio a trade territory that once belonged exclusively to this city, but which has recently been appropriated by North Texas cities through railroad communication that has come in from the North.

The growth and prosperity of San Antonio depends in great measure upon the development of the agricultural resources of Southwest and West Texas. This country is well fitted for raising hogs and for extensive dairying; alfalfa and other

\$1,600,000 FOR HIGHWAYS.

Extensive Operations by Commissioners of a Texas County.

[Special Cor. Manufacturers Record.]

Commissioners' Court,

Tarrant County,

Fort Worth, Tex., January 11.

Entrusted with the expenditure of \$1,600,000 in a lump sum for the construction of a modern system of county roads and bridges, the commissioners of Tarrant county, Texas, have set about the task with a unity of purpose in the adoption of plans and methods of procedure, which, it is believed, will give to the people of the county highway facilities unsurpassed in the United States. One million dollars has been set apart for road-building purposes, and \$600,000 will be expended for new bridges.

Contracts have been let for two important bridges across the Trinity River in Fort Worth, and work upon these is now under way. The Main street bridge is to cost, when completed, \$372,000. Built



STEAM SHOVEL AT WORK ON SAN ANTONIO, UVALDE & GULF RAILROAD CONSTRUCTION.

afterwards eastward to Fowlerton, in La Salle county. It was owned and operated by J. E. Franklin of St. Louis, Mo., and associates, who made a proposition to San Antonio early in 1912 to build a railway south from this city to the Gulf coast at or near Corpus Christi, with a branch extending to the southwest to connect at Fowlerton with the Crystal City & Uvalde Railway. Later this offer was supplemented by a proposition to build another line from some point on the main line at or near Fowlerton into the Lower Rio Grande Valley.

The distance between San Antonio and Fowlerton is 78 miles. Construction of this line was begun May 1, 1912, and it was completed November 15. In the meantime the name of the Crystal City & Uvalde Railway was changed to the San Antonio, Uvalde & Gulf Railway, which will be carried over the entire system. It now has 202 miles of line in operation between San Antonio and Uvalde, and maintains daily passenger and freight service. This road extends out of San Antonio southward to Jourdan, county-seat of Atascosa county, and Pleasanton; then, bearing to the southwest, it passes out of Atascosa county near the southwestern corner and through the northwestern corner of McMullen county and westward into La Salle county to Fowlerton. Much of the country through which it passes has been heretofore without railroad facilities. It is a rich territory, the

requires the headquarters to be at some point on the line of the road, and as it will not be built into San Antonio at this time, the provision for headquarters has been waived, and it will be in Fredericksburg, which has raised a bonus of \$150,000 for the railway. Eventually the line will be extended into San Antonio, so that its trains will come into this city over its own rails.

Construction of the San Antonio, Fredericksburg & Northern Railway was begun the latter part of December, 1912. It will extend at first between Fredericksburg and a point on the San Antonio & Aransas Pass Railway near the town of Waring, a distance of about 28 miles. Some of the grade work was done several years ago, for several times the building of a railway to Fredericksburg has been projected, and once before it was begun. This time it will be carried to completion, for substantial bonuses have been raised and forfeit money put up. The difficult part of construction and what has heretofore prevented the building of the railway is the passage through a mountain of rock and a big fill just south of it, a distance of two miles, that will cost, it is estimated, more than the construction of all the rest of the line. Engineers have been in doubt whether to tunnel the mountain or cut through it, but it has been decided finally that a 42-foot cut will be made right through it and the material taken out will be used to make the fill be-



CONCRETE BRIDGE OVER MEDINA RIVER, SAN ANTONIO, UVALDE & GULF RAILROAD.

forage crops grow as luxuriantly as anywhere in the country, and with the increase of railroad facilities to the south and north of San Antonio these interests will grow rapidly. These will enhance the importance of San Antonio as a trading center and a manufacturing point.

J. F. CARTER, JR., Secretary.

For Jacksonville's Municipal Docks.

Bearing upon the vote to be taken on January 21 on the proposition of the establishment of municipal docks and terminals at Jacksonville, President George L. Drew of the Board of Trade of that city, referring to the work of the special committee on that project, said:

"The important results of the labors of this committee was the calling in special session by Governor Gilchrist of the Florida Legislature at Tallahassee October 1. The session lasted three days and passed the enabling act whereby Jacksonville may own, operate and control its own municipal docks and terminals. The Legislature also passed an act granting to the city of Jacksonville for 1000 years the right to use the 'middle ground' in the St. John's River for a dock site. The expense of the special session of the Legislature was borne by the Board of Trade of this city, and is unique in that it is probably the first time that a Legislature has been called together at the request of a commercial body and at its expense."

of reinforced concrete, it will be 2100 feet in length, with arched spans 225 feet between the massive piers.

It provides for double-track street-car lines, 54 feet of driveway space and eight-foot walkways. This bridge, spanning the river at the terminus of Main and North Main streets, completes the connection between the principal business street of Fort Worth and the thriving city of North Fort Worth, where are located the Swift and Armour packing industries, the Southwestern Mechanical Co.'s great plant, the stockyards and live-stock markets. Two miles of brick paving, now being completed on North Main street to the end of the bridge, connects the paved districts of the two cities, which are both, however, included in the name of Fort Worth. The south end of this bridge touches a point on the river bluff just where the old fort stood, from which the city took its name. And a citizen, yet hale and active, recalls the time since he was a grown man when more than a thousand Tonkaway Indians camped about this fort for several months claiming protection from their mortal foes, the dreaded Apaches.

One hundred and seven thousand dollars is the contract price of the bridge being built across the Trinity on West 7th street. Except in its length, 500 feet, and a narrowing of driveways to 38 feet and walkways to 6 feet, it is a duplicate of the Main-street bridge. Plans and

specifications are being drawn by the engineers for two other bridges across the Trinity in the city, one at Samuels avenue and one at Riverside Bridge. Building in the county districts will be provided for as the road construction develops the location and character of structures needed.

Before embarking upon a definite policy of road building the Commissioners, at the invitation of the Chamber of Commerce and at the expense of that body, visited the Middle, Northern and Atlantic States and inspected the methods used in modern road building, and thus accumulated a fund of useful information which stands them in good stead in the solution of their problems.

Impressed with the character of roadways built under the direction of J. C. Travilla of St. Louis, the Commissioners employed him as construction engineer in charge of the county road work. Because of his official duties as head of the municipal engineering department of St. Louis, Mr. Travilla will not give his entire time to Tarrant county, but with a corps of competent experts on the ground he will also give a large share of his personal attention to the road plans, and will see to their execution as well. The entire fund of \$1,000,000 will be expended under his direction.

Eight cardinal roads, with Fort Worth as the central point, have been located, radiating at as nearly equal distances apart as possible and extending to the county line at each terminus. Connecting these main thoroughfares, subcardinal lines or feeders are being mapped at such distances as will place every community in the county upon either a principal road or an equally substantial lateral leading into it.

The eight cardinal roads will have, according to Mr. Travilla, the present underlying gravel strata as a base, and upon this will be constructed roadways of crushed stone with an asphalt oil binder. The rock-paved surface of the cardinal roads will be 16 to 18 feet in width, with a five-foot gravel shoulder, the surface curvature and drainage to be accurately provided for. Sharp turns will be eliminated and grades reduced so that the steepest grade will have five-foot raise in 100 as the maximum. Engineer Travilla, driving over the county last week with the Commissioners, discovered a gratifying disposition on the part of landowners to move back their fences in order to provide for wider roads.

It is expected that the maps, profiles and estimates will be completed in time to begin actual construction with the opening of spring weather.

The Commissioners and citizens feel that in setting the pace for permanent road building upon a large scale for the entire Southwest the work must be so done that the performance will justify the undertaking. In this spirit the plans are being executed as rapidly as a proper execution of a great trust will permit.

A. J. BEAVERS,
County and Court Clerk.

The jurisdiction of the industrial department of the Baltimore & Ohio Railroad has been extended over the Cincinnati, Hamilton & Dayton Railway, effective at once, and will embrace all lines of the Baltimore & Ohio system. W. W. Wood, general industrial agent, announces the promotion of Harry O. Hartzell, industrial agent at Pittsburgh, to the position of assistant general industrial agent, with headquarters at Baltimore, Mr. Hartzell's jurisdiction also being extended over all lines of the system.

CO-OPERATION IN AGRICULTURE.

Benefits to Truck Growers in Eastern Virginia.

[Special Cor. Manufacturers Record.]

Oceana, Va., January 9.

A splendid structure is being erected in Norfolk by the truckers in the Norfolk section. The "steel" portion is just completed, and when the structure is fully completed early in the summer it is to be the home of the truckers of Eastern Virginia. This is practically the second monument erected by the Southern Produce Co., testifying to the good results growing out of or accruing to the members of the company for long, persistent, consistent, intelligent co-operative effort on their part. The Virginia Truck Experiment Station was built by this company, buying the land, erecting the buildings and equipping the station, and then turning it over to the State of Virginia and retaining two of the directors managing the station. The station is for the use and benefit of all portions of the State.

The structure that is being erected in the city is to be seven stories in height, including the basement, and is to be finished in white brick, with terra-cotta trimmings, to be fire-proof, and equipped with all the modern appliances, comforts and conveniences. The basement is to be used for storage and heating, the first floor for two stores and offices for the use of the company, the second, third, fourth and fifth floors for offices, and the sixth floor for an assembly-room in which to hold all meetings of the Southern Produce Co. The structure is 46x72 feet. And it is expected that the income from the rented portions will pay a good interest on the cost and a profit besides. The building is conveniently located, being right on the great artery of business connecting Norfolk and Portsmouth, and midway between the great transportation headquarters and convenient of access to the truckers on all sides of the harbor.

The primary object of this company has always been to present a united solid front to the business world, in order to secure all fair, reasonable and just concessions, to co-operate to a greater or less extent in purchasing supplies, and to regulate the shipping of produce, so as to avoid, as far as possible, glutting the markets.

Right away after the close of the war the trucking industry began to assume shape, size and proportions. The peculiar advantages possessed by the Norfolk section, the peculiar natural advantages of soil and climate, attracted the attention of New Jersey market gardeners who were interested in growing green stuff for their local markets. Several of the New Jersey market gardeners came to the Norfolk section, and with a few of the Southern men began the work which in the ensuing years has reached such goodly proportions. Early in the work the grange and alliance were represented here, finally giving place to, or being absorbed by, the Southern Produce Co. This company, after learning a whole lot by experience, finally got onto the work in good shape, with the result of both making and saving money. The tangible visible assets of the company are the structure under contract and the Virginia Truck Experiment Station, both valuable properties and splendid monuments testifying to the value and advantage of co-operative effort on the part of the tillers of the soil.

Such a home as this will help to hold the company together and keep it from wearying in well doing. It gives permanency, dignity, weight and prestige to its builders, and enables them all the better to meet the business world and secure all

just privileges and concessions that may be rightly demanded. This may not be the first of its kind—may not be the first monument to illustrate agricultural co-operation, but it surely is one of the best.

A. JEFFERS.

Discrimination Against Cotton Oil.

Louisville Cotton Oil Co.,

Louisville, Ky., January 8.

Editor Manufacturers Record:

You were good enough to interest yourselves some time ago in the question of foreign discrimination against one of our most important industries, and it may interest you to learn that so far not only no relief has been secured from the difficulties then mentioned, but, on the contrary, new difficulties of like character have arisen recently.

We understand the State Department at Washington last week was advised in dispatches from the legation in Buenos Aires, Republic of Argentina, that the budget committee of the Argentine Chamber of Deputies has favorably reported a bill for the increase of the duty on cotton oil, while the duty on olive oil is to be decreased.

The Government of the Republic of Uruguay recently increased the duty on cotton oil without a corresponding increase on other vegetable oils. The reason therefor is readily found when it is considered that our oil exports to the principal market centers of South America since the beginning of this year's season have more than doubled in volume those during corresponding period a year ago, in the face of a material decline in our exports this year, compared with last year, to all other foreign markets, which, up to the present, amount to practically 100,000 barrels. This may be explained by the failure of this year's olive crop, which, perforce, will send olive oil prices soaring sky-high, and people are taking readily to the wholesome and much cheaper cotton-oil substitute.

If, however, as it is claimed, the increase in duties which is about to take place is for revenue purposes only, it would be reasonable to assume that import duties on like products would proportionately be increased.

On the other hand, we have heard quite recently of a general movement throughout the Republic of South America to check at all hazards a further expansion of the dreaded North American commercial invasion, and perhaps this is only one of the first steps in that direction.

In the meantime, no relief has been obtained from similar ills and ailments under which our industry is suffering at the hands of European governments, regardless of all efforts and endeavors on the part of our Government and the representative American cotton-oil manufacturers.

Attention, however, should be called to the fact that perhaps the incoming administration can do far more good and achieve much more in that direction at the occasion of the proposed downward revision of the tariff, which is scheduled to take place very shortly, and it should be impressed upon our legislators to take into account difficulties such as these wherever any of our industries are so afflicted that in granting a reduction of import duties on the manufactures of the world, in exchange for the granting of the same like consideration be given our own manufactures where apparently such unjust discriminations exist.

While we do not wish to engage in a discussion of the merits of political convictions upon the subject, it cannot be denied that much good can be done on the one hand, while on the other a precious

opportunity may be lost forever to achieve the desired end. J. A. BOURGEOIS.

YEAR OF GREAT PRODUCTION.

The 1912 Mineral Output Largest in History of Industry.

Large figures, some of them clean record-breakers, have been attained in the mineral output of the United States for 1912, according to the specialists of the United States Geological Survey. The figures of coal production are the most sensational, all previous records having been surpassed by about 50,000,000 tons, an increase equal to the total production of the country 40 years ago. The production for 1911 was 496,221,168 short tons; the estimate for 1912 is 550,000,000 tons, and the final figures may even reach a still higher mark.

The production of copper was also the largest in the history of the industry, the high-water mark reached in 1911 being handsomely surpassed. According to the statistics and estimates received by the Survey, the output of blister and Lake copper was 1,249,000,000 pounds in 1912, compared with 1,097,232,749 pounds in 1911, the respective values being nearly \$200,000,000 and \$137,154,002. The production of refined copper is estimated at 1,500,000,000 pounds in 1912, compared with 1,433,875,026 pounds in 1911. The production in Arizona may have exceeded 350,000,000 pounds, not only a record output for Arizona, but a record for any State for any one year.

The gold-mining industry of the United States was generally normal in 1912, but the Survey estimates indicate the smallest production since 1907, when the output was valued at \$90,435,700. That for 1912 is estimated at \$91,685,168. In 1909 the gold production reached very nearly the \$100,000,000 mark.

Alaska's mineral output in 1912 is estimated at \$21,850,000 in value, an increase of \$1,200,000 over the figure for 1911. Of the total for 1912, the gold production was valued at \$16,650,000. The total value of Alaska's mineral production since 1880, when mining began in the Territory, is stated in round numbers at \$229,000,000, of which \$202,000,000 is represented by the value of the gold output.

In silver production in the United States in 1912 the indications are for a possible output of 64,000,000 fine ounces, the highest figure since 1892, when the production was estimated at 63,500,000 ounces. The high prices generally paid for silver, copper and lead in 1912 stimulated production. The average price for silver for the year is stated at 60.9 cents an ounce.

In lead the preliminary figures of the Survey show a small decline in 1912 from the high record figures of 1911, the output of refined lead, desilverized and soft, from foreign and domestic ores, being 480,965 short tons in 1912 and 486,976 short tons in 1911. The value of the 1912 output is stated at \$43,286,850. The domestic production of lead ore is stated to be about 20,000 tons greater than the 1911 output of 441,187 short tons.

In the zinc industry the figures show a phenomenal activity. The production of primary spelter in 1912 is estimated at 323,961 short tons from domestic ores and 14,669 tons from foreign ores, a total of 338,630 tons, valued at \$46,731,000, compared to 286,526 tons, valued at \$32,663,964, in 1911.

Quicksilver production in 1912 shows a heavy gain over the 1911 production, which itself showed a great gain over that of 1910. The 1912 figures are stated at 25,147 flasks of 75 pounds each, worth \$42.04 a pound, or \$1,057,180.

The production of iron ore in 1912 was,

according to Survey estimates, from 25 to 32 per cent. greater than that of 1911, the figures for 1912 being between 54,500,000 and 57,500,000 long tons, against 43,550,633 tons in 1911. It is believed possible that the record figure of 56,889,734 tons produced in 1910 may be exceeded by the 1912 output.

The United States continued to lead the world in petroleum production in 1912; in fact, produced more than all the rest of the world, and is estimated to have about maintained the tremendous record of 220,449,391 barrels made in 1911. The Geological Survey's estimate for 1912 is 220,200,000 barrels. The estimated value of the 1912 output, however, is much greater than that of 1911, the figures being \$150,000,000, against \$134,144,752.

To Develop 60,000 Horse-Power.

The Tri-State Power & Milling Co., Huntington, W. Va., has been incorporated with \$600,000 capital stock by O. L. Stearnes and R. W. Kline of Salem, Va.; H. M. Fox of Roanoke, Va.; Z. T. Vinson and A. E. Bush of Huntington. Mr. Stearnes is president, and he writes to the MANUFACTURERS RECORD as follows:

"This company has acquired sufficient water rights for hydro-electric developments along New River in Summers, Mercer and Monroe counties, West Virginia, and Giles county, Virginia, aggregating a control of between 50,000 and 60,000 horse-power. The company is assured of contracts for the sale of power which will utilize at least half of the proposed developments. Sufficient financial backing is assured for immediate purposes, and no offering of securities will be made to the general investing public at this time. It is the purpose of the company to furnish electric light and power chiefly in the States of West Virginia, Kentucky and Ohio, and will most likely center its interests at Huntington, where its principal office is located. When plans are more fully matured a detailed statement of the proposed developments, character of construction, transmission, etc., will be made."

Pensacola's Municipal Docks.

Voters of Pensacola, Fla., decided last month upon an issue of \$400,000 in bonds for the construction of municipal docks and a belt railway long advocated by the Commercial Association of that city. Leland J. Henderson, secretary. That body has adopted a resolution favoring the selection of a designing board of engineers favorable to municipal control of public terminals at ports, and authorized to submit a plan comprehensive of industries, railroads, docks, leading business houses, etc., of the city, the relation of Pensacola to the foreign trade of the United States and its suitability for industrial development looking to the possibility of construction of docks, warehouses, terminal railroad, etc., in units from time to time as the business of the port shall warrant.

A Growing Country.

Mr. T. J. Taylor, cashier of the Martin Bank of Martin, Tenn., writes to the MANUFACTURERS RECORD that the county court and the banks of Weakley county have raised \$1360 toward securing a United States Government farm demonstrator. He adds, with reference to his county:

"The lands are rich, suitable for almost any kind of crop. We raise all kinds of grain, cotton, hay and tobacco, tobacco being the principal money crop. The stock business is no small part of our

money. Our farmers are progressive, and have recently taken hold of the matter of better roads in a way that will greatly improve them. Land values have doubled in the county within the last five years, and will double again within the next ten."

Gold and Silver Mining in 1912.

The gold-mining industry of the United States was generally normal in 1912, according to H. D. McCaskey of the United States Geological Survey, but early figures indicate the smallest production since 1907, when the output was \$90,435,700. In 1908 the output increased to \$94,560,000, in 1909 to \$99,673,400, in 1910 it dropped to \$96,269,100, in 1911 it increased slightly to \$96,890,000, but in 1912 it decreased to \$91,685,168, according to preliminary estimates of the Bureau of the Mint and the Geological Survey.

The decrease is to be ascribed mainly to Nevada, where there was a falling off of about \$4,500,000, chiefly from Goldfield, and to a smaller degree from National and Seven Troughs. The great Goldfield mines produced more ore than in 1911, but the average grade treated was considerably lower; the mill at National was burned in September, and production was delayed at Seven Troughs by a cloudburst in July. On the other hand, the Manhattan, Round Mountain and Fairview districts somewhat increased their yields. A decrease of \$300,000 to \$400,000 is also indicated for Colorado, where, although there was an increase production from Cripple Creek of about \$500,000, owing partly to successful drainage by the Roosevelt tunnel, and an increase in gold output also from Gilpin county, there was an estimated decrease in production of about \$1,000,000 from the San Juan region. In Utah and Washington decreases of gold output of \$100,000 to \$200,000 are indicated. In Montana there was probably a smaller decrease.

The production of gold was normal in Alaska, Arizona, Idaho and New Mexico, and there was a somewhat increased output in California and Oregon. The year 1912 was most prosperous in South Dakota, where the output increased about \$400,000 and was the largest in the history of the State.

California retains first place in gold output, regained from Colorado in 1911.

Gold dredging continued generally active in 1912, especially in California and Alaska, where increased dredging capacity was added. The output from 120 dredges in 10 States (including Alaska) in 1911 was \$10,311,589.

In the Geological Survey's report on gold and silver for 1911 it was shown that of the total gold production, 24 per cent. was derived from placers, dredging alone producing 10.9 per cent.; 53.8 per cent. was from gold and silver mills (23.9 per cent. by amalgamation, 26.1 per cent. by cyanidation and 3.8 per cent. by chlorination), and 22 per cent. from smelting.

Preliminary estimates of the United States Geological Survey and the Bureau of the Mint indicate a domestic silver production in 1912 of 62,369,974 fine ounces, valued at \$37,982,414, the greatest output (though not the greatest value) since 1892, when the production was estimated at 63,500,000 ounces. In 1893 it was given as 60,000,000 ounces, and not since then until 1911, when the production was 60,399,400 ounces, has the figure been above 60,000,000. Final figures may show an even greater output for 1912, of approximately 64,000,000 ounces, or the largest output in the history of the country.

GOOD ROADS

WEEK'S HIGHWAY RECORD.

Progress in Southern Road and Street Improvement.

[Further details of highway undertakings and bond issues mentioned below are given under the headings Construction Department and New Securities, published elsewhere in this issue.]

Bonds Voted.

Charlotte, N. C.—City will issue \$50,000 bonds for street improvements.

Excelsior Springs, Mo.—Clay county voted bonds to construct nine miles of rock road; cost \$65,000.

Kansas City, Mo.—City voted \$300,000 bonds to construct streets.

Sevierville, Tenn.—Sevier county authorized \$180,000 bonds for road construction.

Yazoo City, Miss.—Yazoo county authorized \$300,000 bonds for road construction.

Bonds to Be Voted.

Brooksville, Fla.—Hernando county will vote on \$100,000 bonds for road construction.

Halifax, N. C.—Halifax county will vote on \$300,000 bonds for road construction.

Contracts Awarded.

Charlotte, N. C.—City awarded contract for street paving; cost \$50,000.

Edgewood, W. Va.—City awarded contract for 29,000 square yards of bitulithic paving and 3½ miles of curbing.

Hampton, Va.—City awarded contract to pave, gutter and sewer 625 square yards; cost \$2780.25.

Marshall, Tex.—City awarded contract to construct 12,000 square yards paving.

Rome, Ga.—City awarded contract to pave 11 blocks with sheet asphalt; cost \$100,000.

Waco, Tex.—City awarded contract for 3000 square yards of paving.

Contracts to Be Awarded.

Aberdeen, Miss.—Monroe county receives bids until February 3 to construct about 22 miles road.

Clearwater, Fla.—Town receives bids until January 21 for paving, etc.; vitrified brick and asphalt and bitumen; \$90,000 available.

Ellicott City, Md.—Howard county will rebuild St. John's lane, about two miles long.

Havre de Grace, Md.—John F. Oldfield will build half-mile racetrack.

Jacksonville, Fla.—City receives bids until February 10 to construct 98,826 square yards pavement on concrete base on various streets.

Madisonville, Ky.—Hopkins county will construct several miles of roads during present year.

Montgomery, Ala.—Montgomery county receives bids until January 20 to gravel about six miles of road.

West Point, Miss.—Clay county opens bids January 20 to construct 26 miles of road.

Louisiana Highway Improvement.

Secretary C. C. Sandoz of the State Highway Department has compiled a statement showing that during the past year under the auspices of the department 127.38 miles of improved highways have been built in Louisiana at an expenditure by the State and parishes of \$199,931.22. Of the total mileage constructed, 155.38 miles are earth roads, 8 miles shell roads and 4 miles petrolithic roads. Since its organization the department has let contracts for 196.69 miles of highways at an estimated cost of \$413,453.09.

RAILROADS

[A complete record of all new railroad building in the South will be found in the Construction Department.]

RAILWAY AND WATER LINE.

Plans for By-Product Coke and Power Plant on Warrior River.

J. M. Dewberry of Birmingham, Ala., who organized the Tidewater Development Co. several years ago, which resulted in the construction of the Birmingham, Ensley & Bessemer Electric Railway, is quoted in a report from Birmingham as saying that he resigned from the railway enterprise on December 31, and that he now proposes to devote himself to fulfilling, under the name of the Tidewater Power Co., the other extensive plans of the development project by building an independent railroad from Birmingham to the Great Warrior River; establishing a steamer and barge line from the railroad terminal to Dauphin Island near Mobile; build a by-product coke and power plant at the tidewater terminus of the railroad, and develop Dauphin Island as a port and also as a summer and winter resort.

It is further said that these plans depend upon the completion by the general government of its improvement of the Warrior River so as to make it navigable for such vessels as those which the company intends to operate. Financial arrangements, it is further stated, have been agreed upon with New Yorkers, to whom the plans have been presented. While Mr. Dewberry did not say when construction might be expected to begin, it is understood that it will be started within a year, to comply with a franchise which the power company is seeking in Birmingham.

The gas from the coke plant is expected to be used as fuel for the generation of electricity, and it is claimed that by thus utilizing what would otherwise be a waste product, electric light and power can be obtained at a remarkably low price. It is believed that the tidewater terminus and the coke plant will be at Locust Fork on the river, 25 miles from Birmingham.

Mr. Dewberry intimated, according to the report quoting him, that he had expected to devote himself to these enterprises immediately after financing the Birmingham, Ensley & Bessemer Railway, but that the bankers interested in that line asked him to remain with it until it was in operation, and he did so.

\$2,000,000 TO BE SPENT.

Missouri, Kansas & Texas Railway Devotes That Sum to Improve Texas Lines.

President C. E. Schaff of the Missouri, Kansas & Texas Railway, according to a report from New York, says that the company will spend \$2,000,000 this year for additions and betterments to its Texas lines. As for equipment, \$3,000,000 worth of cars and engines which have been ordered will all be delivered by June 1 and will supply present requirements. He expects the excellent increase in revenue, both gross and net, to continue, and is quoted saying that the relatively low ratio of operating expenses to gross earnings will be maintained.

The statement is also published that the "Katy," as this system is called, will reballast every mile of its tracks in Texas with burned clay and crushed stone. About 170 miles of lines will have 85-pound rails laid thereon in place of the present lighter rails. In some other sections light rails will also be superseded

by heavier. This track improvement will cost altogether, it is estimated, about \$1,200,000, of which about \$700,000 will be for the reballasting and the rest for the rails. Other improvements to the permanent way, including passing tracks, sidings, team tracks, widening of banks, etc., will cost another \$100,000. Then there are the following items: New bridges, culverts, etc., \$77,000; water and fuel stations, \$70,000; station buildings new section-houses and improvements to existing similar structures, \$195,000; new interlocking plants, electric block signals, etc., \$200,000; telegraph and telephone lines, \$27,000; reduction of grades and some double-tracking, \$130,000.

Engineers are now working out details of the improvement plans.

BALTIMORE & OHIO LOAN.

\$64,000,000 of Bonds, Part of Which May Be Used for Construction, etc.

The Baltimore & Ohio Railroad Co. has arranged to issue approximately \$64,000,000 of new 4½ per cent. 20-year convertible gold bonds, this action being taken, it is stated, because it seemed desirable at this time to recoup its treasury for money spent in construction and equipment and also to provide for future requirements. Kuhn, Loeb & Co. and Speyer & Co., both of New York, have underwritten the entire issue, but there will be other bankers participating in the financing. It is intimated that there will be a further issue of bonds later in the year. The company has \$50,000,000 of short term notes falling due June 1, and some of funds obtained through the new bond issue may be used to retire those securities. The bonds are to be dated March 1, 1913, and for ten years will be convertible into the common stock at 110. Present stockholders may subscribe to the issue to the amount of about 30 per cent. of their holdings at 95½ and interest.

At the directors' meeting Samuel Rea, now president of the Pennsylvania Railroad, resigned from the Baltimore & Ohio board, and Robert Garrett of Baltimore was elected to succeed him. Mr. Garrett is a grandson of the late John W. Garrett, who for many years was president of the Baltimore & Ohio. His father, who died a number of years ago, was T. Harrison Garrett, a Baltimore banker, as is Robert Garrett.

NEW LINES IN BIRMINGHAM.

Morris Bros. Ask Franchise in the City to Extend Their "Tide-water" Enterprise.

Morris Bros., bankers, 141 Broadway, New York, say concerning the Birmingham, Ensley & Bessemer Railway that they expect to put the East Lake extension from Birmingham, Ala., in operation by February 1. The line to Bessemer will be rushed to completion, but the firm cannot now name any time for the operation of that extension. Application has been made for an additional franchise in Birmingham to cover approximately 12 miles of proposed tracks, but the authorities have not yet acted upon it.

Concerning the desired franchise, a report from Birmingham says that G. I. Brown, general manager for the company, informed the City Commissioners that, having completed its trunk line through the city, the company desired to extend its service therein and is ready to begin construction of the proposed new lines. Forney Johnston is attorney for the railway. It is said that the routes cover a distance of 12½ blocks. At least one viaduct and one subway to cross the steam railroads will be required, and either a subway or a viaduct at another point on those roads. The principal lines desired

are east and west of avenue D, avenue F, Fifth avenue and Eleventh avenue North; also north and south on 18th street and 28th street, with loop lines in North Birmingham and at the Norwood Boulevard.

A New Road in New Country.

A report of a recent trip over the New Orleans, Texas & Mexico division of the Frisco system has been received from William Salomon & Co., bankers, 25 Broad street, New York. It is presented in a neat pamphlet, and embodies a great deal of information concerning this important railroad line, which extends from New Orleans via Houston to Brownsville, Tex., on the Mexican border. In this division there is approximately 1000 miles of line, of which only 184 miles are trackage rights. The road runs through the rich lands of a semi-tropical country lying between New Orleans and the Texas boundary, along the line being sugar mills and plantations, sawmills and great forests of cypress and other woods and extensive rice plantations. In the southeastern part of Texas it traverses timber, oil and rice-growing regions, and then south of Houston there is a perfect revelation of new development, towns of several thousand inhabitants being found where there was nothing only a few years ago. The construction of the railroad and the irrigation developments by means of artesian wells have made the country, which formerly was cattle ranch land, attractive to settlers, and now there are truck farms in large numbers, besides cotton, rice, sugar and corn plantations. Still there is a large area left available for cattle and horse raising, and when the big ranches are cut up the farmers will continue to raise cattle in even greater numbers than now. Among the places reached by the road are Corpus Christi, Harlingen, Mercedes, Mission and San Benito, Tex. The pamphlet will well repay anyone for its perusal. An excellent map accompanies it.

Texas & Pacific Report.

The Texas & Pacific Railway Co. has issued its report for the fiscal year ended June 30, 1912, showing operating revenues \$16,973,223, increase as compared with the previous year \$1,094,739; operating expenses \$13,308,296, increase \$880,860; net operating revenue \$3,664,927, increase \$213,879. Until last year the company's fiscal year ended with the calendar year, and it is remarked that a complete comparison cannot be made. The comparison here shown is, however, with the 12 months ended June 30, 1911. The other figures for the year work out to a deficit of \$384,768, but there is a profit and loss surplus remaining of \$282,584. There was \$751,529 spent for new equipment. President George J. Gould remarks that the increase in gross earnings was accomplished under extraordinarily adverse conditions.

Cape Girardeau & Northern.

The Cape Girardeau & Northern Railroad Co. has been incorporated in Missouri, with authorized capital stock of \$2,500,000, to take over, operate and extend the Chester, Perryville & Ste. Genevieve Railway, the Cape Girardeau & Chester Railroad, the Cape Girardeau & Thebes Bridge Railroad and the Saline Valley Railroad, which were recently purchased from Louis Houck of Cape Girardeau, Mo., by a syndicate headed by J. Hunter Byrd of St. Louis.

These four lines have a total of about 106 miles of tracks. An extension was recently completed by Mr. Houck to Farmington, Mo., and it is said to be the intention of the new owners to extend

from Farmington farther northward into the lead belt, probably to Flat River, Mo. Operating via the Thebes Bridge, this would, it is said, afford the lead belt a very short route for fuel supply from the Illinois coal fields. Mr. Byrd, the new president, is quoted as saying that \$500,000 have been provided to rehabilitate the roads and put them in superior condition to handle any traffic offered. An additional \$1,000,000 has also been authorized for additional facilities and extensions whenever conditions warrant them.

The other officers of the company are E. R. Byrd, vice-president; A. R. Byrd, Jr., treasurer, and R. H. Schultz, general manager. The directors are George W. Simmons, A. R. Byrd, Jr., Allen T. West, J. H. Byrd and G. H. Walker. General offices will be in the National Bank of Commerce Building, St. Louis.

New Equipment, Rails, Etc.

The Rock Island lines have asked for bids on 1000 steel-frame 40-ton box cars 40 feet long and 250 refrigerator cars, also 40 tons. Bids not yet received, and contract will not be awarded for perhaps two weeks. This is the only freight-car equipment purchase now contemplated by the company. Recently a contract was awarded to the Standard Steel Car Co. for 500 steel coal cars of 50 tons capacity and 40 feet long.

Norfolk & Western Railway is expected to purchase 1250 freight cars.

Louisville & Nashville Railroad is reported in the market for bridge steel for this year's delivery.

International & Great Northern Railroad, according to a market report, has ordered 1000 cars from the Canadian Car & Foundry Co.

Southern Railway, according to a report from New York, is getting prices on 100 box cars, 100 gondola cars, 100 automobile cars and 50 hopper cars.

Passenger equipment orders are reported pending as follows: Rock Island lines, 50 coaches; Illinois Central, 40 all-steel coaches; Baltimore & Ohio, 8 all-steel postal cars.

The Harriman lines are reported to have divided their motive power order thus: Baldwin Works, Philadelphia, 208 locomotives; American Locomotive Co., New York, 50 locomotives.

Atchison, Topeka & Santa Fe Railway, says a report, have ordered 2700 freight cars from the American Car & Foundry Co., St. Louis, and 112 all-steel passenger cars from the Pullman Company, Chicago.

Chattanooga Railways.

The Chattanooga Railway & Light Co. proposes to spend this year \$500,000 or more for new construction and other improvements. Two lines are now under construction, one to the summit of Lookout Mountain and the other to Chickamauga Park. M. S. Hopkins of Columbus, O., vice-president of the company, is quoted as saying that during the past three years there have been expended on the property \$5,583,285, this covering the acquirement of property, extensions and the construction of the power plant at Parkville. The general manager of the company is W. E. Boileau of Chattanooga.

May Connect Two Roads.

At a special meeting of the board of directors of the Canton Railroad Co., recently held, M. K. King was elected vice-president to succeed J. Wm. Middendorf, resigned. Mr. King is also a vice-president of the Maryland & Pennsylvania Railroad, with which, according to reports from time to time, the Canton Railroad,

a local line of the Canton Company of Baltimore, may be connected. A charter exists under which a connecting line may be built from a point at or near Towson, which is several miles north of Baltimore on the Maryland & Pennsylvania.

Lawton to Ardmore.

The Oklahoma, New Mexico & Pacific Railroad Co. of Lawton, Okla., has been chartered to build the proposed line from Lawton to Ardmore, about 100 miles, as recently reported; capital stock \$1,500,000. Survey is begun at Ardmore, Okla. Incorporators are John Ringling and M. Ringling of New York, Charles C. Wilson of Chicago, R. V. Gunton, W. R. Gunton, Jake L. Hamon and Fred C. Ellis, all of Lawton, Okla.

MINING

Developing 24,000 Acres.

The Pierce Coal & Lumber Co., Bridgeport, Ala., is developing 24,000 acres of land near Piercetown. It writes to the MANUFACTURERS RECORD as follows:

"We have built three miles of standard-gauge railroad and two and three-quarters miles of 36-inch gauge, including 2000 feet of gravity incline, both equipped with locomotives and cars. We have installed two circular-saw mills with a capacity of 25,000 feet daily. We shipped the first car of coal on December 31. Curs is a high-grade domestic coal, 3 to 4 per cent. ash and low in sulphur, but having about 40 per cent. volatile and combustible matter, is therefore a good gas coal also. Mining is by hand now, but later we may install electric machines. Our shipping point is Lime Rock, on the Memphis division of the Southern Railway. The Pierce Development Co. is the holding and mill operating company. The Pierce Coal & Lumber Co. is the mine operating company."

Electricity for Mining.

The Electric Transmission Co., Guy Darst, president, Bristol, Va.-Tenn., has awarded contracts for constructing and equipping its central electric power plant at the mouth of coal mines near St. Charles, Va. This plant is the first unit, and will cost about \$300,000. It will have a transmission system 50 miles in extent, covering the entire Black Mountain coal field, with a line eastward to Toms Creek, covering the Stonega and other districts in Wise county. The company plans to install additional units and extend its transmission wires to Bristol and Knoxville, and into the Piedmont and Appalachian regions, investing ultimately about \$1,000,000. Its incorporation and a general outline of its plans were heretofore announced by the MANUFACTURERS RECORD.

To Merge Kentucky Companies.

Reports state that Coleman du Pont of Wilmington, Del., is interested in a plan for the organization of the Du Pont Coal Co. for merging the Central Coal & Iron Co. and 12 smaller coal-mining companies around Central City, Ky. Mr. Du Pont writes to the MANUFACTURERS RECORDS "Not in position to give any information at this time."

Charles Davies has been appointed traveling immigration agent of the Georgia Southern & Florida Railway, with headquarters at Jacksonville, Fla. In his solicitation of immigration from the North and West to the territory of his line Mr. Davies will work in co-operation with the land and industrial department of the Southern Railway.

TEXTILES

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cotton matters.

Bel-Vi-Dere Mills.

The Bel-Vi-Dere Mills will probably be the name of the \$500,000 company announced last week as to be organized to build a mill at Lexington, N. C. George W. Montcastle, president of the Bank of Lexington, and Erlanger Bros. of the B. V. D. Company, New York, will be the owners. Their plans provide for utilizing a 150-acre site donated by the people of Lexington to secure the enterprise for building a complete modern mill village and mill of 25,600 spindles and 700 looms, to be increased to 40,000 spindles and 1000 looms, and to build within five years another mill of 40,000 spindles and 1000 looms, an ultimate investment of \$2,000,000. The cotton cloth made is to be used for manufacturing the B. V. D. underwear. As stated last week, the Howard & Bullough American Machine Co. of Pawtucket has the textile machinery contract, and J. E. Serrine of Greenville, S. C., is the architect-engineer in charge.

Texas Mill Enlargement.

The Texas Cotton Mill Co., McKinney, Tex., writes to the MANUFACTURERS RECORD as follows:

"Our improvements in way of building consist of an addition to the weave shed or one-story part of the mill, 106x113 feet, and to the two-story part of the mill 100x61 feet. Jones & Cooper of McKinney are the contractors for this building. They have completed their work, and we are now installing the shafting, machinery, etc. All material has been purchased, and we expect to have the new equipment in operation by April 1. We will then have 10,000 spindles and 320 looms on blue denims, pin checks, awning stripes, tickings, etc. This is the only mill in Texas making colored goods and the only one that we know of west of the Mississippi River."

Interwoven Mills.

The Interwoven Mills, Martinsburg, W. Va., writes to the MANUFACTURERS RECORD as follows:

"We are not yet ready to make any announcement concerning the location of the new plant which we expect to erect, nor are we able to give you any definite information about it. Increased business will probably make it necessary for us to increase our production."

This company was previously reported as to erect an additional building. Its present equipment includes 1000 knitters, dyeing and finishing machinery, etc., for the production of cotton, wool, silk and lisle hosiery.

Big Mill Company Planned.

The Cotton Mill Securities Co., Oklahoma City, has been organized with the following officers: President, H. W. Williams; vice-president, W. B. Smith Whaley; treasurer, W. B. Watkins; secretary, Milton Bryan. This company's plans contemplate the organization of a \$10,000,000 corporation to build a plant with an ultimate equipment of 600,000 spindles and 15,000 looms. Mr. Williams is of the Western Guaranty & Trust Co.,

recently mentioned as planning a cotton-mill company.

The Cotton Movement.

In his report for January 10 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight during 132 days of the present season was 10,044,862 bales, a decrease under the same period last year of 243,306 bales. The exports were 5,648,305 bales, a decrease of 109,712 bales. The takings were, by Northern spinners, 1,438,200 bales, an increase of 87,128 bales; by Southern spinners, 1,437,504 bales, an increase of 272,504 bales.

Sisal Growing and Manufacture.

The Sisal Hemp & Development Co., St. James City, Fla., is progressing with its plans, previously detailed by the MANUFACTURERS RECORD, for sisal growing and manufacture. Its buildings are expected to be completed and equipped with machinery by March 1, the output to be sisal rope and twine. In connection with its enterprise the company is also installing an ice plant, a machine shop, an electric-light plant and water-works.

Pickens Mill Addition.

The Pickens (S. C.) Mill has completed its additional \$20,000 building and is installing 6000 additional spindles and 166 looms for its enlargement previously detailed. Its additional building is 105 feet long by 86 feet wide, erected by Contractor C. F. Grandy of Easley, S. C. About \$65,000 was the cost of the new machinery.

To Add 5016 Spindles.

The Russell Manufacturing Co., Alexander City, Ala., will add 5016 spindles and accompanying machinery. It is erecting a 113-foot 5-inch by 145-foot mill building addition and a 60x100-foot warehouse addition, of brick mill construction. It now has 5016 spindles, 40 knitting machines, 40 sewing machines, bleaching and finishing equipment, etc.

Textile Notes.

The Yokona Mills, Water Valley, Miss., will build an addition for a dyehouse and winding-room.

F. W. Clay, El Paso, Tex., proposes the organization of a company to build a cotton mill; probably \$500,000 capitalization.

The Deep River Mills, Randleman, N. C., will, it is reported, construct an addition for a weaving mill and build a cement dam across Deep River.

The Eureka Cotton Mills, Englewood, Tenn., is reported as to install the electric drive for its entire plant. This company recently installed some electrical machinery.

E. C. Brinser's Sons, South Richmond, Va., has been incorporated for manufacturing woolen goods. The company is capitalized at \$50,000, and has the following officers: President, H. D. Brinser; vice-president, O. D. Brinser; secretary-treasurer, J. W. Brinser.

The Durham (N. C.) Hosiery Mills has purchased the T. F. Lloyd Manufacturing Co. of Chapel Hill, N. C., including a 10,000-spindle equipment for manufacturing hosiery yarns. This output will be consumed in the various mills of the Durham company.

The Magnet Knitting Mills, Clinton, Tenn., writes to the MANUFACTURERS RECORD: "We expect to add a few more machines from time to time and gradually increase our production." This company was previously mentioned as having increased its capital stock from \$50,000 to \$75,000.

LUMBER

[A complete record of new mills and building operations in the South will be found in the Construction Department.]

Hardwood Lumber Manufacturers.

Interest in the producing as well as the consuming ends of the lumber industry is centered on the forthcoming convention of the Hardwood Manufacturers' Association in Cincinnati February 4-5. The program is being arranged with an idea of eliminating all superfluities and presenting only such problems that are of general interest and demand attention. To this end President W. E. De Laney of the association is planning for the meeting to have only about three set talks to be made during the two days. The subjects and the speakers have not yet been made public, but assurances are given that they will be along lines of more than usual interest to the consumer. It is understood that an effort is being made this year to attract to the convention a very large representation of the consuming element in lumber, as it is the purpose of the management of the association to draw the consuming body into a close relationship. Conditions in the lumber-producing industry have been very good for the past 12 months, and there is a lively interest in association work as the result. This will assert itself in the attendance and the virility of the discussions.

Carolina Spruce Co.

The Carolina Spruce Co., Pensacola, N. C., is progressing with the erection of its plant, which will have a daily capacity of 80,000 feet of spruce and hardwood lumber. Its band mill, planing mill, locomotive, cars, etc., have all been purchased at a cost of \$75,000. C. S. Aldrich of Johnson City, Tenn., is president, and Charles K. Parry of Philadelphia, Pa., is vice-president. W. H. McMullen of Johnson City is the architect and construction engineer in charge.

Big Hardwood Sawmill.

The Arkansas Short Leaf Lumber Co., Pine Bluff, Ark., a branch of the Long-Bell Lumber Co. of Kansas City, will build a big hardwood mill at Pine Bluff. It has ordered the machinery, and expects to have the plant in operation within three months. It wires the MANUFACTURERS RECORD: "Hardwood sawmill 40x158 feet; one band and resaw; frame building on concrete base; 60,000 feet daily capacity; also drykilns, preparation and flooring factory."

Chartered With \$500,000 Capital.

With a capitalization of \$500,000, the McNary Lumber Co. has been chartered and will build a large sawmill at McNary, La. A 28,000-acre timber tract will be developed. The incorporators are W. M. Cady and B. E. Smith of McNary, H. I. Miller of New York, J. S. Reynolds and James G. McNary of El Paso, Tex.

A \$500,000 Lumber Company.

The Hamilton Ridge Lumber Corporation, Richmond, Va., has been chartered with an authorized capital of \$500,000 and the following officers: President, J. R. Paschall; vice-president, C. Boice; secretary, James Mullen; treasurer, Thomas Gresham.

A \$750,000 Cooperage Company.

The Creston Cooperage Co., Greenville, Miss., has been incorporated with \$750,000 capital stock by John M. Peel, Wm. S. Peel and George E. Whitney, all of

Marysville, O. John M. Peel is president, and writes to the MANUFACTURERS RECORD that details are not ready.

Hoya Lumber Co.

The Hoya Lumber Co., Nacogdoches, Tex., has been organized to build a sawmill with a daily capacity of 25,000 feet of lumber at Hoya Switch, four miles from Nacogdoches. It has purchased 50,000,000 feet of standing timber for supplying the mill.

FOREIGN NEEDS

Machinery and equipment wanted abroad are mentioned in many letters received by the MANUFACTURERS RECORD, which is so widely read in foreign countries that we are in constant receipt of many letters from all parts of the world. For the benefit of our subscribers seeking foreign trade we publish the following extracts from recent letters:

For Russian Trade.

S. Prager, Wilna, Russia, writes to the MANUFACTURERS RECORD:

"Permit me to indicate you some products of American industry which might have a considerable share of business with us: American kid leather, the demand upon our market being an increasing one, and as I am permanently in connection with first-class Russian buyers, I could develop a big business if some American maker might be in a position to entrust me the agency. I then shall be able to suggest to him a mode of work by which transactions could be rendered easy enough to him. Films and supplies for the cinematograph. I beg leave to request bringing me in connection with traders or manufacturers of films open to appoint an agent in Russia. Further, a regular business could be done in paraffine wax and colophony. In these two latter products there is with us a permanent demand, and a good share of business might ensue. Then there is a permanent demand in American oils and greases. Should some refiner or dealer desire to do a regular business with our Russian buyers, then be so kind to invite them to forward me prices and samples. Take notice that in forwarding samples it is reasonable to mail them registered."

Chile Wants Shoe Findings.

Jaramillo & Baldrich, Casilla 249, Santiago, Chile, write to the MANUFACTURERS RECORD:

"We are endeavoring to fill out our line of agencies in American products, among them a branch in shoe findings and machinery relating thereto. We shall be glad to get information of every kind about them: catalogues, prices, discounts, proposals, etc., on leathers, soles, thread, linings, laces, eyelets, etc. At the same time, specifications on foot covering suitable for import here and of a good kind would be acceptable."

American Machine Tools Abroad.

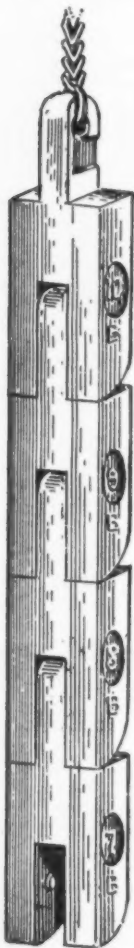
A series of consular reports on the markets for American-made machine tools in Latin America will be issued in the near future by the bureau of foreign and domestic commerce at Washington. Lists of firms and individuals who sell and use machine tools in the various countries are a valuable feature, and considerable attention is given the sales methods, credit terms, etc. The Latin American countries are largely agricultural, and the demand for machine tools has consequently been limited, but there is an increasing use of machinery of this sort in some localities in Latin America, especially in connection with railroad repair shops.

MECHANICAL

Withers Sectional Sashweights.

The accompanying illustration shows the sectional sashweights patented by W. G. Withers and manufactured by the Callaway Foundry Co. of Atlanta, Ga. These weights are cast in the form shown, and when being installed sections are hung on in such a way that they cannot become released. By this means the required weight to balance the window is readily and accurately obtained.

Among other advantages claimed for the Withers sashweight are the convenience in handling so that one man can hang the sash; no breaking of large weights or fitting is required; being made of cast iron, the cost is kept low; dealers are not required to carry large stocks, as various sizes can be made up from these



WITHERS SECTIONAL SASH WEIGHTS.

sections. The present tendency in the use of plate glass requires that the weights shall be supplied after the windows are made in order that the correct balance may be obtained. By the use of Withers sectional sashweights no delay in obtaining correct sizes is involved. The weights are made in both square and round sections.

Among the buildings in which they have been used are the Candler Building, Atlanta; Florida Life Insurance Building, Jacksonville; Seminole Hotel, Jacksonville; Union Bank & Office Building, Columbia, S. C.; Cumberland Telephone & Telegraph Co.'s building at Knoxville, Tenn., and others. It is planned to use them in the metal window frames on the new Hurt Office Building, Atlanta.

Palmetto Root Destroying Machine.

The difficulties which have been encountered in cultivating land covered with palmetto growth, small trees and similar conditions have been met by the design and construction of the Palmetto root destroyer as manufactured by the

Palmetto Machine Co., Tampa, Fla., with Baltimore office 1417 Munsey Building.

This machine is the invention of Albert L. Hallbauer, and is shown in the accompanying illustration as actually engaged in breaking up land covered with Palmetto growth and small trees. It consists of a powerful gasoline motor and tractor, which operate a number of rapidly revolving knife-edge arms which dig into the soil, cutting the roots which may be encountered and at the same time breaking up the soil so that the resulting condition is similar to ordinary plowing and harrowing combined. A large box with connection also furnishes fertilizer, so that it is well distributed at the same time that the ground is being broken.

This machine has attracted much attention in the South, and the factory at



THE PALMETTO ROOT DESTROYER.

Tampa will be considerably increased in order to meet the demand for the machine.

They are not sold outright, but the operating company uses them to break up large tracts of land on contract, and it is stated by Chas. F. Burrows, Baltimore, president of the company, that it can be done at a low cost.

The company is also designing a machine for destroying the large stumps to be used in connection with this root destroyer, so that by combining the two, lands containing stumps of any size may be cleared and readily worked. Mr. Hallbauer, the inventor, is secretary and treasurer of the Palmetto Machine Co. at Tampa.

New Type of Friction Ball Separator.

For 1913 Messrs. Fichtel & Sachs of Schweinfurt, Germany, manufacturers of the well-known F. & S. radial and thrust ball bearings, have added a new type of ball separator to their other types, the most prominent of which has previously been the die-cast aluminum separator. The J. S. Bretz Company, 250 W. 54th street, New York, is the sole importer of F. & S. ball bearings in this country. The new separator, a one-piece steel construction, will be known as the "Ribbon" type. It is formed from a one-piece patented unit sheet steel stamping, drawn and formed without joints, welds or rivets in its construction. The separator itself is heavily corrugated and ribbed on one side for added stiffness, and finished in gun metal blue, is light in weight and frictionless. Its use permits of normally grooved raceways of deeper cross-section than any other make, its correct radius lines thus adding enormously to the lateral wall strength of the inner and outer raceways. The radius of curvature of the raceway on the inner race is made somewhat smaller than that of the outer race, since looking at both races sideways, the outer race curves in a manner concave to the

ball and the inner race convex; the outer race, therefore, encloses more of the ball than does the inner race.

There are a number of advantages claimed for this new form of construction which has been under test and actual use for over a year, and one of the main features of the bearing with the new separator is that it permits of practically unlimited high speed and vibration, besides which the retainer is not affected by heat.

The new retainer permits the use of larger balls, and in many of the sizes a larger number of balls which has always been a predominant feature of F. & S. ball bearings of every type on account of their transverse side entrance slot construction on the inner and outer rings on one side. This statement does not hold

retained in the separator. The new type of ball bearing is said to operate even more quietly than the aluminum type of separator.

A self-aligning type of radial bearing has also been added to the line. This type consists of a standard bearing with a spherical surface on the outer race, and the addition of a washer with a spherical inner surface. This permits of adjustment in case of shaft deflections.

On account of recent extensive additions to the large plant, the company is able to produce special bearings without interfering with their standard production.

Mietz & Weiss Oil Engines.

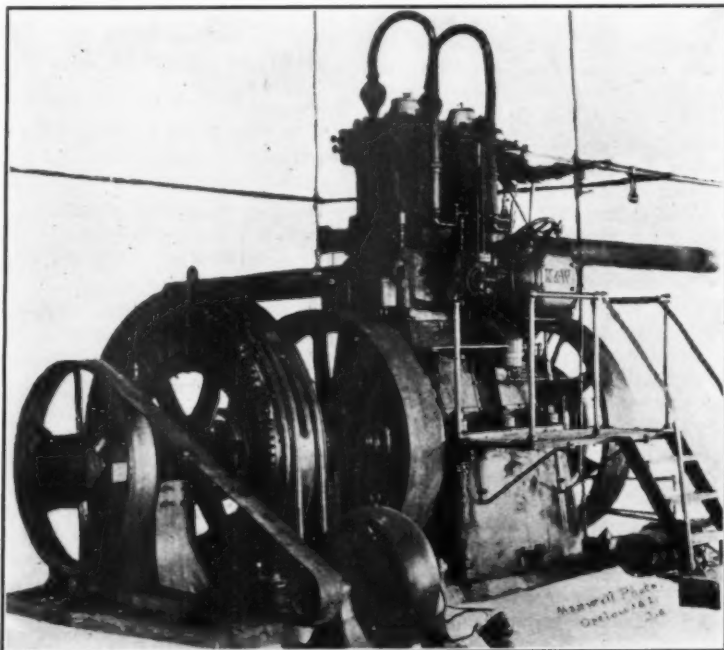
The new installation of oil engines by the Opelousas (La.) city electric-light and water-works system, according to press reports, is giving great satisfaction, and the fuel service has been reduced from \$42 per day to \$14 per day.

The power for this new service is supplied by a Mietz & Weiss oil engine of 100 horse-power, manufactured by A. Mietz, 129 Mott street, New York.

This engine was installed by Armas Durio, agent for this engine at Opelousas. Crude oil just as it is pumped from the wells at the Jennings (La.) oil fields is used. The engine is used for operating two electric motors of 35 horse-power each, one running an air compressor and the other a two-stage centrifugal pump, both furnishing water to the city water-works. Electric light is also provided for the city by the power produced by this engine.

The report from A. C. Jones, superintendent of the electric-light and water-works plant, is in part as follows:

"Ever since this engine was installed we have had it in continuous service for about 16 hours a day, and its consumption of oil for this run varies between two and a half and three and a half barrels of Jennings crude oil just as it comes from



MIETZ & WEISS CRUDE OIL ENGINE.

of the ball diameter, and directly with the number of balls, it is obvious that an increase in the diameter of the balls more than compensates for the slight decrease in their number. In many of the sizes increase in load capacity is said to run as high as 30 per cent. The "Ribbon" type of separator also permits of a free circulation of the lubricant and lessens the probability of foreign particles being

the wells. This engine was guaranteed to run to .9 of a pound of oil per horsepower hour under full load conditions, but it only used .66 of a pound under operating conditions. It runs nicely on the crude oil as a fuel, and we see no reason why it should not continue to do so indefinitely. The engine has several times been overloaded without any bad results, and it carries its full load easily."

Construction Department

TO OUR READERS!

In order to follow up properly the Construction Department items, please bear in mind the following statements:

EXPLANATORY

The MANUFACTURERS RECORD seeks to verify the items reported in its Construction Department by full investigation. It is often impossible to do this before the item must be printed or else lose its value as news, and in some items it is found advisable to make statements as "it is reported" or "rumored," and not as positive information. If our readers will note these points they will see the necessity of the discrimination. We are always glad to have our attention called to errors that may occur.

HOW TO ADDRESS

The name of one or more incorporators of a newly incorporated enterprise should always be shown on letter addressed to the official headquarters or to the town of the parties sought, as may be shown in the item. Sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. By following these general directions the postoffice will be enabled to deliver your mail promptly, although it is inevitable that some failure by the postal authorities to deliver mail to new concerns will occur.

WRITE PERSONAL LETTERS

In communicating with individuals and firms reported in these columns a letter written specifically about the matter reported will receive better and quicker attention than a circular. In most instances a return postal card or addressed and stamped envelope should be enclosed with letter.

In correspondence relating to information published in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

The Daily Bulletin of the Manufacturers Record is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is \$25 per year. On all advertising contracts in the Manufacturers Record for three months or longer a subscription to the Daily Bulletin is included for the contract period.

BRIDGES, CULVERTS, VIADUCTS

Ala., Gadsden.—Louisville & Nashville Railroad, W. H. Courtenay, chief engineer, Louisville, Ky., will rebuild west end of Coosa River bridge; approach reported to be of wood construction.

Ala., Linden.—Marengo County Commissioners awarded contracts to construct two steel and concrete bridges, one 150 feet long and other 280 feet long; cost \$6000.

Ark., Wynne.—Cross County Commissioners contemplate issuing bonds to construct steel draw, three other steel bridges and concrete culverts, etc.; Edward Hamilton, chairman. (See "Road and Street Work.")

Fla., Kissimmee.—City will construct four concrete bridges over municipal drainage canal now being constructed by Contractor J. P. Middlemas.

Ga., Americus.—Sumter county votes February 26 on \$80,000 bond issue to construct concrete culverts and steel bridges. Address County Commissioners.

Ga., Cordele.—Crisp County Commissioners receive bids until February 4 for erection of steel bridge across Gum Creek; 150-foot structure; S. W. Coney, clerk. (See "Machinery Wanted.")

Miss., Hattiesburg.—Forrest County Supervisors awarded contract to Converse Bridge Co. of Chattanooga, Tenn., to construct four steel bridges costing \$7421; three to have wooden floors and one concrete floor. (Recently noted to have adopted plans of Converse Bridge Co.)

Mo., Kansas City.—City defeated \$450,000 bond issue for design, construction, equipment, improvement or extension of bridges and viaducts and approaches thereto within corporate limits of city; Henry J. Jost, Mayor. (See "Miscellaneous Construction.")

S. C., Montgomery (not a postoffice).—Southern Railway, B. Herman, chief engineer, Washington, D. C., will build timber trestle at Montgomery, near Kershaw, S. C. Tenn., Blountville.—Sullivan County Commissioners ordered construction of three steel bridges, one across river at Kingsport to cost \$20,000, and other two over river on Weaver pike and at Shady Ford; total estimated cost, \$50,000.

Texas.—Eastern Texas Traction Co., W. A. Obenchain, Jr., chief engineer, Dallas, Tex., will erect reinforced concrete bridges ranging from 100 feet to 2200 feet in length on railroad line (under construction) between Dallas and Greenville, Tex.; 2200-foot bridge is 20-foot span slab construction, and located in East Fork bottom.

Tex., Charlie.—Interstate Bridge Co., capital stock \$30,000, organized to construct steel bridge across Red River near Charlie; W. B. Worsham, president; J. P. English, vice-president; W. H. Featherston, treasurer; H. H. Haggard, secretary.

Tex., Dallas.—J. M. Preston, City Engineer, states plans for viaduct will not be ready before 30, and probably 60 days; structure to be built by railroad and approaches by city. (Estimated cost recently noted to be \$100,000.)

Tex., Dallas.—Dallas County Commissioners awarded contract to G. W. Ledbetter to construct steel bridge across Cole Creek near White Rock reservoir.

Va., Courtland.—Southampton County Supervisors rejected bids for erection of 11 steel bridges; considering purchase of material and construction with county road crews under supervision of bridge engineer. (Call for bids and full particulars lately noted.)

Va., Floyd.—Floyd county will construct two bridges, one over Burks Fork, 229 feet 4½ inches long, 12-foot roadway, 87-foot 6-inch steel span and eight approach spans; other across South Fork of Roanoke River, 87-foot 6-inch steel span, 12-foot roadway; concrete substructures; bids received January 27; P. St. J. Wilson, State Highway Engineer. (See "Machinery Wanted.")

Va., Hill Station.—Scott county will construct bridge across Clinch River; 437 feet 2 inches long, 12-foot roadway; to include two 150-foot steel spans, one 80-foot span and one 50-foot span; cement rubble substructure; bids received January 28 by Clerk at Gate City, Va.; P. St. J. Wilson, State Highway Engineer, Richmond, Va. (See "Machinery Wanted.")

W. Va., Catawba.—Buckhannon & Northern Railroad, S. D. Brady, chief engineer, Fairmont, W. Va., petitioned Congress to authorize construction of bridge across Monongahela River at Catawba.

CANNING AND PACKING PLANTS

Fla., Tampa.—Tampa Packing Co., capital stock \$100,000, incorporated; H. T. Lykes, president-treasurer; D. O. Fulton, vice-president-general manager; T. M. Lykes, secretary.

Md., Chapel Station (not a postoffice).—Talbot Packing & Preserving Co., Easton, Md., acquired five acres land and will build tomato cannery.

Md., Willoughby, P. O. at Queen Anne.—Cover Canning Co. organized with T. Hugglett Henry, president; Thomas M. Bartlett,

vice-president; A. S. Cover, secretary-treasurer, all of Easton, Md.; purchased cannery; operate and probably enlarge. (Recently mentioned.)

Mo., St. Louis.—Gerber Packing Co. will repair and build addition to cooler; cost \$6000.

CLAYWORKING PLANTS

Ga., Savannah.—Bricks.—General Equipment Co., E. O. Perry, manager, 10 State St. W., contemplates establishment of brick-making plant. (See "Machinery Wanted.")

Mo., Carthage.—Bricks.—C. S. Bahney of Fort Scott, Kan., and J. E. Mecusker of Sedalia, Mo., are promoting establishment of brick plant.

Mo., Kansas City.—Terra-cotta.—Kansas City Terra-Cotta & Faience Co., 19th and Manchester Sts. (previously noted acquiring plant of Kansas City Terra-Cotta Co. and to make additions), will erect \$6200 kiln and \$2000 fireproof drier; construction by company; manufacture terra-cotta, 350 tons per month; E. V. Eskeren, president; M. S. Neal, vice-president; F. P. Neal, treasurer; H. M. Germs, secretary-manager.

COAL MINES AND COKE OVENS

Ala., Birmingham.—J. M. Dewberry of Tidewater Power Co. proposes construction of by-product coal, coke and power plant on Warrior River at junction of his company's proposed railway and of navigation line; contemplates furnishing electricity for railway and terminals, for mining and for light and power in Birmingham district; Mr. Dewberry writes to Manufacturers Record: "Hope to give details later on."

Ala., Blockton.—Hampton S. Smith, H. W. Perry and others are incorporators of Red Eagle Coal Co.; recently reported incorporated with \$50,000 capital stock.

PROPOSAL ADVERTISEMENTS

IN THIS ISSUE ARE

PUBLISHED ON PAGE 86 and 87

In order to secure best bids from leading engineers, contractors and investment houses, the proposal advertising columns of the Manufacturers Record are invaluable.

Rate 20 cents per line per issue.

When Proposal Advertisements cannot be sent by mail in time to secure insertion before date for opening bids, please wire advertisement copy collect by Day Letter

Proposal Advertising forms close Wednesday, 10 A. M.

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Va., Hill Station.—Scott county will construct bridge across Clinch River; 437 feet 2 inches long, 12-foot roadway; to include two 150-foot steel spans, one 80-foot span and one 50-foot span; cement rubble substructure; bids received January 28 by Clerk at Gate City, Va.; P. St. J. Wilson, State Highway Engineer, Richmond, Va. (See "Machinery Wanted.")

W. Va., Catawba.—Buckhannon & Northern Railroad, S. D. Brady, chief engineer, Fairmont, W. Va., petitioned Congress to authorize construction of bridge across Monongahela River at Catawba.

Ala., Holt.—Central Iron & Coal Co., Tuscaloosa, Ala., will build 20 additional by-product ovens; New York address, 37 Wall St.

Ala., Piercetown.—Piercetown Coal & Lumber Co., F. D. Pierce, president, Bridgeport, Ala., will develop coal land; has 24,000 acres; present daily capacity, 200 tons coal, mined by hand; will increase to 500 tons and may install electric machines later; J. D. Austin, engineer in charge. (Previously noted organized at Lime Rock, Ala.)

Ark., Bonanza.—Woodson-Strickland Coal Co. (recently noted incorporated, \$5000 capital stock), will develop 75 acres; daily capacity up to 335 tons; present machinery needs supplied; M. M. Woodson, president and treasurer; M. Woodson, vice-president; John Strickland, secretary.

Ky., Central City.—Coleman du Pont, Wilmington, Del., is reported as interested in plan to organize Du Pont Coal Co. for merging Central Coal & Iron Co. and 12 smaller coal-mining companies around Central City; Mr. du Pont writes to Manufacturers Record: "Not in position to give any information at this time."

Ky., Kitz.—Clover Fork Coal Co., B. W. Whitford, president and manager, will develop 1500 acres; daily output 600 tons. (Recently noted, under "Ky., Harlan," as purchasing coal land.)

Mo., Waverly.—English syndicate (Frank Fowler of London, Eng., Frank B. Drage, Herbert Drage and others) purchased coal mines owned by C. C. Christie of Kansas City, Mo.; property includes 25 acres developed land and 2000 acres undeveloped land; purchase price, \$300,000; also secured options on 540 acres coal land in Lafayette county.

Okl., Henryetta.—Summers Coal Co., cap-

ital stock \$50,000, incorporated by J. H. Buckner of Henryetta, John Bostable and W. B. Hudson.

Tenn., Knoxville.—Hickory Creek Coal Co., capital stock \$20,000, incorporated by N. K. Jenkins, Charles Jenkins, Brown Prosser, W. K. Hunter and J. H. Frantz.

Va., Roanoke.—W. J. Brown, president Hazard Coal Land Co., Bristol, Va.-Tenn., may be addressed relative to company's plans for developing coal property. (Company recently noted incorporated with \$100,000 capital stock.)

CONCRETE AND CEMENT PLANTS

Fla., Anastasia.—Blocks.—Rev. L. L. Pickett, St. Augustine, Fla., purchased half interest in Deming concrete plant on Anastasia Island and will operate as Anastasia Concrete Co.; install additional machinery in main plant, increasing capacity to 1800 ornamental concrete blocks weekly; also establish branch plant in St. Augustine.

Fla., Fellsmere.—Cement Blocks, etc.—C. S. Hamlin of Leesville, N. C., will install plant to manufacture cement building blocks and bricks.

Fla., St. Augustine.—Blocks.—Rev. L. L. Pickett and associates will establish plant to manufacture ornamental concrete blocks. (See Fla., Anastasia.)

Ga., Macon.—Cement Products.—Cement Product Manufacturing Co., capital stock \$25,000, incorporated by F. J. McFadden, T. J. Roberts, M. L. Hatcock and others.

Tenn., Memphis.—Wright Lime & Cement Co. (recently noted incorporated, \$50,000 capital stock) will not manufacture; will increase jobbing business.

COTTON COMPRESSES AND GINS

N. Y., New York.—Empire Duplex Gin Co., J. E. Cheesman, general manager, 68 William St., writes to Manufacturers Record: "We are not ready to say anything at the present time; when matter is fully decided will give information." This refers to plans for establishing roller cotton gins throughout the South. (Previously reported organized for manufacturing cotton ginning and cleaning machinery, etc.)

Tex., Laveria.—Laveria Farmers' Gin & Milling Co. (recently noted incorporated with \$10,000 capital stock) will erect fireproof structure and install 10 ginstands; cost of machinery \$10,000; capacity 100 bales per 12 hours; Underwood, contractor; construction engineer, Chas. Von Boeckmann; Frank L. Koepp, president; Wm. Engelhardt, secretary-treasurer; C. F. Dieckow, manager.

COTTONSEED-OIL MILLS

Ky., Louisville.—Columbia Oil Co., capital stock \$100,000, incorporated by Oscar Fenley (president National Bank of Kentucky), Jefferson D. Stewart (president Union National Bank) and Logan C. Murray (president American National Bank); holding company for Victor Cotton Oil Co.; resume operation of plant.

Tex., Caldwell.—Caldwell Oil Mill Co. applied for authority to increase capital stock from \$20,000 to \$40,000.

Tex., Waco.—Brazos Valley Oil Co., J. T. Davis, president, 6th and Jackson Sts., purchased site 100x165 feet and will, it is reported, establish plant to refine cottonseed-oil products.

DRAINAGE AND IRRIGATION

Ark., Arkansas City.—Cypress Creek Drainage District, Dr. Vernon McCammon, president, voted increased bond issue of \$700,000 for completing four or five main canals recommended by Government engineers.

Ark., Linwood (not a postoffice).—Fred Woods of Grady, Ark., has contract at \$2500 to construct drainage canal.

Fla., Starke.—Board of County Commissioners, C. A. Roberts, chairman, receives bids until February 10 (postponed date) for letting of previously-noted canal and ditch work; excavation of about 200,000 cubic yards, draining about 17,280 acres in East Starke drainage district; W. T. Weeks, clerk. (See "Machinery Wanted.")

Ky., Wickliffe.—Ballard County Commissioners will drain Clanton Creek for nine miles; reclaim 400 acres; awarded contract to A. Benett of Indiana.

Tex., Alvin.—Commissioners Galveston

County Drainage District No. 3, Edward Rakow, chairman, awarded contract at about \$30,000 to J. B. Arpin Dredging Co. of Houston, Tex., to construct drainage canals and laterals; 200,000 cubic yards excavation; \$31,980 bond issue available; district comprises 7500 acres and adjoins District No. 9 of Brazoria county, comprising 9300 acres; two drainage systems are to be constructed jointly; Ed M. Leary, civil engineer. (Call for bids lately noted.)

Tex., Beaumont.—Jefferson County Drainage District No. 3, George Gill, president, will drain 45,000 acres of land; work requires removal of 800,000 yards of earth; widening Taylor's Bayou, seven miles, to 60 feet on bottom and about 10 feet deep; also Mayhow Bayou to 30 feet on bottom and 5 to 7 feet deep, and 4 to 6-foot bottom dredge ditches; total cost \$82,500; E. A. Dieter, Hampshire, Tex., engineer in charge. (Previously noted to establish drainage district and issue \$100,000 worth of bonds to construct drainage system.)

Tex., Eagle Pass.—Rio Grande Irrigation Co., capital stock \$5400, incorporated by L. C. Debons, William Cummings, Pedro Roderiguez and others.

Tex., Galveston.—Galveston County Commissioners awarded contract to J. L. Corbett to construct drainage canal near Nadenu; 1500 cubic yards excavation; John M. Murch, County Auditor. (Call for bids lately noted.)

Tex., Orange.—Orange county voted \$30,000 bond issue to construct drainage system to reclaim about 30,000 acres; organize Drainage District No. 1. Address County Commissioners. (Recently mentioned.)

Tex., San Angelo.—Dr. S. S. Warren purchased 10 acres land and will irrigate; cultivate Bermuda onions; pottery system of irrigation.

ELECTRIC PLANTS

Ala., Birmingham.—J. M. Dewberry of Tidewater Power Co. proposes construction of plant furnishing electricity for railways, mining plants, general light and power, etc., in Birmingham district; contemplates this construction in connection with by-product coke plant; Mr. Dewberry writes to Manufacturers Record: "Hope to give details later on." (See "Coal Mines and Coke Ovens.")

Ark., Little Rock.—Arkansas Electric Co., C. J. Dollis, president (recently noted) incorporated, capital stock \$20,000, will continue former partnership business; Nicholas Campbell, secretary.

Fla., St. James City.—Sisal Hemp & Development Co. is installing electric-light plant.

Ky., Munfordville.—Munfordville Electric Light & Power Co., P. K. Hubbard, president, will construct electric plant recently noted; erect building 20x40 feet; install 25-horse-power oil engine; plant cost \$3500; J. O. Bright, engineer in charge; bids opened February 1. (See "Machinery Wanted.")

La., Lafayette.—City will install three boilers, electric generator and air compressor in light and water plant; A. R. Trahan, Mayor.

La., Napoleonville.—City votes February 18 on construction of electric-light plant. Address The Mayor.

Miss., Waveland.—City will construct electric-light system. Address The Mayor.

Mo., Kansas City.—Monarch Electric Co. increased capital stock from \$75,000 to \$125,000.

Mo., St. Louis.—Missouri Gas & Electric Service Co. incorporated by James A. Rector, Robert J. Kirkwood and Walter R. Mayne; capital stock, \$500,000.

Mo., St. Louis.—Iron County Electric Light & Power Co., capital stock \$10,000, incorporated by W. T. McCaskey, S. F. Seager, James P. Pattens and others.

Mo., St. Louis.—Missouri Public Utilities Co., capital stock \$1,000,000, incorporated by Hugo Wurdack (president Light & Development Co., Wright Bldg.), H. W. Beck, W. A. Smith and others to operate light, power, gas and ice plant and interurban electric railways in Southeast Missouri; acquired plants in Charleston, Sikeston, Illinois and Fomfelt, Mo.; is negotiating for additional plants, and will construct several more; build central electric plant to cost about \$500,000.

N. C., Snow Hill.—Town and J. F. Davis will rebuild within corporate limits electric-light plant recently burned; install superior equipment; burned plant was located at Tyson Marsh, two miles from town, and included flour and corn mill and cotton gin.

Okla., Oklahoma City.—Corporation Serv-

ice Co., capital stock \$10,000, incorporated by I. P. Montz, C. F. Wheeler and E. L. Culver.

Okla., Soper.—Company organized by J. W. Whitehead and J. F. McMillan of Soper and L. Stokes of Forney, Okla.

Tex., Giddings.—Q. U. Watson purchased electric-light plant for Giddings Cotton Oil Co. at \$4145; will improve.

Tex., San Benito.—San Benito & Rio Grande Valley Railroad, S. A. Robertson, president, is reported as interested in plan to install large electric plant at lignite coal fields and transmit electricity for light and power (especially at irrigating systems) within 150-mile radius.

Tex., Temple.—Temple Electric Co., capital stock \$4000, incorporated by James E. Ferguson, C. A. Hughes and J. E. Love.

Va., St. Charles.—Electric Transmission Co. awarded contracts for construction of electric plant at mouth of coal mines; also for electrical machinery, condensers, boilers, 50 miles of transmission line, etc.; these contracts for first unit, costing \$300,000; will supply electricity to entire Black Mountain coal field, with wires eastward to Jones' Creek, covering Stonega and other districts in Wise county; contemplates additional units with transmission lines to Bristol and Knoxville, Tenn., throughout Piedmont and Appalachian sections, costing ultimately \$1,000,000; Guy Darst, president, Bristol, Va.-Tenn. (Recently noted incorporated with \$300,000 capital stock.)

W. Va., Moorefield.—City votes February 1 on bond issue to construct electric-light plant; John I. Chipley, Mayor.

W. Va., Williamstown.—S. D. Camden, Henry H. Archer and associates applied for franchise to construct electric-light system; B. L. Bullman, Mayor; H. C. Henderson, Recorder.

FERTILIZER FACTORIES

Fla., Live Oak.—W. H. Lyle (president Chamber of Commerce) and associates are interested in establishment of fertilizer mixing plant; utilize phosphate rock in lower portion of Suwannee county.

Fla., Pensacola.—E. E. Saunders & Co. placed orders for machinery for glue plant; recently noted. (See "Miscellaneous Factories.")

Ga., Devereux.—J. M. Moates contemplates, it is reported, establishing fertilizer mixing plant.

Ga., Lawrenceville.—Lawrenceville Fertilizer Co. will be incorporated by A. T. Green, Isaac L. Oakes and T. R. Martin; build fertilizer plant; offices in old Brown Bank & Trust Bldg. (Mr. Green recently noted as promoting organization of fertilizer company.)

FLOUR, FEED AND MEAL MILLS

Ga., Seville.—D. D. Pierce will rebuild grist mill recently burned.

Mo., St. Louis.—S. & S. Flour Mills Co. incorporated by P. C. Sert, E. C. Bledsoe, J. Sert and W. J. Bledsoe; capital stock \$5000.

Va., Charlottesville.—Albemarle Mills, capital stock \$25,000, incorporated; J. L. Barnes, president; B. H. Barnes, secretary-treasurer.

W. Va., Keyser.—W. B. Woolf contemplates organizing company to erect feed mill and ice plant. (Recently noted as having purchased Keyser Milling Co.'s property and to rebuild mill, etc.)

FOUNDRY AND MACHINE PLANTS

Fla., St. James City.—Sisal Hemp & Development Co. is installing machine shop.

Ga., Atlanta.—Car Wheels, etc.—Southern Wheel Co. chartered with \$2,500,000 capitalization by Samuel F. Pryor of St. Louis, Mo., and Joseph D. Gallagher of New York; plans not matured regarding plant.

Ky., Millersburg.—Blacksmith Shop, etc.—Taylor & Bolling will rebuild carriage and blacksmith shop; concrete construction. (Recently reported burned.)

Md., Baltimore.—Carnegie Steel Co. (main office, Pittsburgh, Pa.) secured permit to erect shop at Bush and Wicomico Sts. to replace burned shop; steel and corrugated iron; one story; 80x327 feet; steam heat. (Recently mentioned.)

Md., Baltimore.—Machinery.—Ellicott Machine Co. increased capital stock to \$700,000.

Md., Baltimore.—Structural Iron, etc.—Dietrich Bros., Pleasant and Davis Sts., purchased 7 to 8 acres land on Baltimore & Ohio Railroad at 27th St.; will build structural iron and steel works; at first erect three shops, each 300x70 feet; may ultimately

locate large permanent plant at new site to replace present works, investing several hundred thousand dollars.

Md., Baltimore.—Iron.—Patapasco Iron Works has plans for workshop to be erected at Stockholm and Wicomico Sts.; 40x50 feet.

Mo., St. Louis.—Sash Weights.—Western Foundry & Sash Weight Co., 159 Miller St., awarded contract to William Veelpel to erect addition to foundry; ordinary construction; cost \$2800; plans by Helsensteler, Hirsch & Watson, St. Louis; no machinery. (Recently noted.)

N. C., Louisburg.—Machinery.—Louisburg Machine Works, capital stock \$15,000, incorporated by T. B. McKinne, S. C. Holden and others.

Okla., Lawton.—Machinery.—Lawton Machine & Foundry Co., capital stock \$25,000, incorporated by B. F. C. Morris and Harry Heile of Oklahoma City and J. W. Miner of Lawton, Okla.

Tenn., Memphis.—Machinery.—United Development Co., capital stock \$5000, incorporated by J. R. Jackson, J. W. Farley, J. L. Tagg and others.

Tenn., Mt. Pleasant.—Machine Shop.—Dugger & Willis will enlarge plant; installing brass foundry and are preparing to build iron foundry.

Tex., Fort Worth.—Flour Machinery.—Company is being organized with \$1,000,000 capital stock by J. B. Sykes and associates to manufacture flour bleaching machine patented by George T. Smith.

Va., Richmond.—Stoves.—Cameron Stove Co. has plans by A. F. Hunt, Richmond, for recently-noted machine shop, 50x50x17 feet 3 inches; warehouse, 50x75x24 feet, and office, 55x19 feet 1/2 inch by 18 feet 1/2 inch; machine shop of fireproof, warehouse of mill and office of frame construction; two elevators, one for charging cupola and one for warehouse; slate and Barrett specification roofing; R. B. Cardozo, 21st and Stockton Sts., Richmond, in charge of construction. (See "Machinery Wanted.")

Va., Roanoke.—Bridges.—Roanoke Bridge Co. contemplates enlarging plant; lay outlet track from shipping yard connecting with main track of Virginian Railway.

W. Va., Charleston.—Boilers.—George B. Burnhard of Syracuse, N. Y., is promoting organization of company with \$100,000 capital stock to manufacture patented cast-iron heating boiler.

GAS AND OIL ENTERPRISES

Ala., Jasper.—Jasper Natural Gas Co., capital stock \$25,000, incorporated.

Ark., Argenta.—Trinidad Oil Co. incorporated with E. A. Ramsey, president; R. G. Deener, vice-president, both of Argenta, and J. C. Coleman, secretary-treasurer, England, Ark.; capital stock \$10,000; leased 4000 acres in Richwoods district of Lonoke county, and will develop gas and oil wells.

La., Vinton.—Pipe Line.—Gulf Pipe Line Co. (main office, Pittsburgh, Pa.) will construct oil pipe line from east side of Sabine River, opposite Orange, Tex., to Vinton oil field, six miles.

La., Vinton.—Vinton Crude Oil Co., capital stock \$20,000, incorporated; W. H. Starks, president, Orange, Tex.; Charles H. Benckenstein, vice-president-general manager, Beaumont, Tex.; J. T. Shelby, treasurer, Beaumont, Tex.

Okla., Bartlesville.—Bartlesville Drilling & Development Co., capital stock \$2100, incorporated by A. M. George, M. and W. D. Reynolds.

Okla., Bartlesville.—Paul Oil & Gas Co. (recently noted) incorporated, \$25,000 capital stock, C. J. Bucy, secretary-treasurer, will make developments; is asking prices on piping, etc. (See "Machinery Wanted.")

Okla., Holdenville.—Colonial Oil & Gas Co., capital stock \$25,000, incorporated by J. R. Witty, C. M. Hamilton, J. L. Bruce and G. L. Benson.

Okla., Oklahoma City.—Keystone Oil & Gas Co., capital stock \$50,000, incorporated by J. B. Bone, J. M. Hines, D. R. Morris, F. J. Aufrecht and others.

Okla., Oklahoma City.—Katy Oil Co., capital stock \$30,000, incorporated by O. S. Kelly and H. E. Kelly of Oklahoma City and J. P. Cook, Enid, Okla.

Okla., Pawnee.—Lagoon Oil & Gas Co., capital stock \$10,000, incorporated by George H. Johnson, G. R. McCullough, O. M. Lancaster and Charles W. Grimes, all of Tulsa, Okla.

Okla., Luther.—Luther Oil Co., capital stock \$10,000, incorporated by J. R. Keaton, D. L. Johnson and Grant Stanley.

Okla., Okmulgee.—Johns Oil & Investment

Co., capital stock \$2000, incorporated by George A. Johns, William B. Rennells of Okmulgee and C. B. McCrory of Muskogee, Okla.

Okla., Sparks.—Sparks Oil & Gas Co., capital \$10,000, incorporated by D. W. Collier, E. H. Emerson, F. B. Earl and Joe McNerney, all of Sparks, and H. S. Emerson of Britton, Okla.

Okla., Oklahoma City.—Gibraltar Oil & Gas Co., capital \$20,000, incorporated by R. T. Jacobs, H. C. Jacobs, B. F. Davidson and R. G. Godair.

Okla., Tulsa.—British-Oklahoma Oil & Gas Co., capital \$100,000, incorporated by Henry D. Broddington, Archibald Campbell and E. R. Perry.

Okla., Tulsa.—Oil Refinery.—Uncle Sam Oil Co., Atchison, Kan., will increase capacity of refinery; remove equipment from Atchison.

Okla., Tulsa.—Greis Oil Co., capital stock \$25,000, incorporated by H. N. Greis, E. A. Ross and A. E. Lewis.

Okla., Tulsa.—Gunsberg-Gilbert Oil Co., capital stock \$160,000, incorporated by Frank P. Whetsel, Roger S. Sherman and Helen A. Smith.

Okla., Tulsa.—Waters-Pierce Oil Co. of St. Louis, Mo., will, it is reported, construct oil pipe line from Oklahoma oil fields to the Gulf.

Okla., Tulsa.—Sunbeam Oil Co., capital stock \$5000, incorporated by J. Replogle, E. M. Garner and D. Replogle of Okemah, Oklahoma.

Tex., Denton.—Denton Oil & Development Co., capital stock \$32,000, incorporated by R. H. Evers, J. C. Colt, J. H. Paine and others.

Tex., Orange.—Nineteen & Thirteen Gas & Oil Co., capital stock \$5000, incorporated by T. J. and D. C. Bland.

ICE AND COLD-STORAGE PLANTS

Fla., St. James City.—Sisal Hemp & Development Co. is installing ice plant.

Ky., Henderson.—Henderson Mining & Manufacturing Co., J. T. Wilson, president, adopted plans for cold-storage plant estimated to cost \$10,000.

Ky., Lancaster.—Bluegrass Dairy & Ice Co., H. V. Bastin, president-general manager, will establish ice plant; daily capacity, 7 1/2 tons. (See "Miscellaneous Factories.")

La., New Orleans.—United Fruit Co., Crawford H. Ellis, manager, will build ice manufacturing and precooling plant for bananas; buildings and machinery to cost \$300,000; daily capacity, 300 tons ice, and shed capacity, 140 cars.

N. C., Greensboro.—People's Ice and Cold Storage Corporation, capital stock \$75,000, incorporated by E. C. Sykes, Howard Gardner, J. R. Hughes, S. L. Gilmer and others.

Okla., El Reno.—Trulock Ice Co., capital stock \$30,000, incorporated by Robert S. Trulock, Joe J. Trulock and Mark D. Libby.

S. C., Charleston.—Consumers' Ice Co. increased capital stock from \$75,000 to \$150,000; enlarge and improve plant.

S. C., Columbia.—Carolina Public Service Co., C. S. Campbell, general manager, placed orders for equipment to double capacity of Columbia Ice & Fuel Co. plant, recently noted acquired.

S. C., Greenville.—Carolina Public Service Co., C. S. Campbell, general manager, Columbia, S. C., purchased plant of Greenville Ice & Fuel Co.; improvements limited to increase of ice storage. (Recently noted.)

S. C., Johnston.—Carolina Public Service Co., C. S. Campbell, general manager, Columbia, S. C., will increase ice storage, install additional boilers, etc., in plant of Electric Light, Ice & Fuel Co., recently noted acquired.

Tenn., Memphis.—Merchants' Ice & Cold-Storage Co. will build ice and cold-storage plant at Porter St. and Railroad Ave.; acquired site of four acres; W. W. Johnson, manager.

Tex., Franklin.—James W. Guynes will build six-ton ice factory.

W. Va., Elkins.—Elkins Provision & Storage Co. acquired Elkins Brewing Co.'s plant; will remodel and equip as cold-storage plant.

W. Va., Keyser.—W. B. Woolf will organize company and erect ice plant, etc., recently noted. (See "Flour, Feed and Meal Mills.")

LAND DEVELOPMENTS

Ala., Birmingham.—Fulton Springs Development Co., capital stock \$4500, incorporated; Moses Levy, president; Al C. Garber, secretary.

Ala., Carney.—Carney Land & Development Co., capital stock \$5000, incorporated by James A. Carney of Carney, Elliott G. Rickaby of Mobile, Ala., and W. Corwin Frank of Canton, O.; Mr. Carney is president.

Ala., Montgomery.—C. E. Rice of Emporia, Kans., will purchase 40,000 to 50,000 acres farm lands and will develop.

Ala., Schuster (not a postoffice).—Alabama Mineral Springs Co., capital stock \$25,000, incorporated by J. J. Bonner and others of Montgomery, Ala.; will develop summer and winter resort and market waters of Schuster mineral springs.

Fla., Jacksonville.—Island View Co., capital stock \$50,000, incorporated; Joseph H. Phillips, president; Clarence T. Masland, vice-president; William Nussbaum, secretary-treasurer.

Fla., Kissimmee.—Chambers Land Co., Kansas City, Mo., wires Manufacturers Record: "Purchased 40,000 acres adjoining Lake Kissimmee on south and east, involving approximately \$500,000; excellent quality citrus fruit and vegetable land." This property will be developed.

Fla., St. Petersburg.—Samuel Hudson, represented by C. R. Buchanan, purchased 50 acres (at present citrus fruit grove) for \$50,000 and will develop; will construct streets and driveways and otherwise improve for subdivision.

Fla., Tampa.—Lake Hart Land Co., capital stock \$150,000, incorporated; Edward V. Pechin, president; James J. Lunsford, vice-president; F. Hodgdon, secretary; George F. Hodgdon, treasurer.

Ky., Louisville.—Angle Realty Co., capital stock \$6000, incorporated by Sidney Kuhn, R. V. Lobred, H. M. Schweizer and others.

Ky., Paducah.—Avondale Heights Co. (recently noted incorporated with \$30,000 capital stock by Brack Owen and others), 809 City National Bank Bldg., will develop 150 acres of land adjacent to city limits; improvements practically completed. (See "Machinery Wanted.")

La., Lake Charles.—Louisiana Tabasco Pepper Co., incorporated by H. C. and H. F. Ehrman and others; will cultivate tabasco peppers. (See "Miscellaneous Factories.")

Mo., Kansas City.—Evanston Park Realty Co., 528 Scarritt Bldg. (recently noted incorporated, \$25,000 capital stock), purchased 40-acre tract; may sell or hold to be platted by company; Louis E. Riddle, president; Jas. P. Aylward, vice-president; Wm. T. Law, secretary and treasurer.

Mo., Kansas City.—Hamburg Land Co., capital \$50,000, incorporated by August F. Seested, T. W. Johnson, K. C. Leavens and Frank C. Seested.

Mo., Kansas City.—City defeated \$250,000 bond issue to improve Swope Park and \$450,000 to improve public parks, parkways and public playgrounds; Henry L. Jost, Mayor. (See "Miscellaneous Construction.")

Mo., St. Louis.—Ernest E. Moulton acquired 74 acres land and will develop; divide into country home sites of five acres each.

N. C., Charlotte.—Crowell Company, capital stock \$50,000, incorporated by W. M. Crowell, S. N. Dunn, J. T. Lawing and Jasper Clark.

Tex., Bailey County.—I. C. Enochs, Jackson, Miss., advises has not decided on policy relative to lands purchased in Western Texas; may include some other recently-acquired lands, and then mature plans for developments, etc. (Lately noted as purchasing 53,420 acres at reported cost of \$700,000.)

Tex., Dewalt.—Dew Bros. Co., capital stock \$800,000, incorporated by H. S. Dew, H. W. Dew and G. L. Dew, all of Fort Worth, Tex.

Tex., Houston.—Allison-Richey Land Co. increased capital stock from \$50,000 to \$100,000.

Va., Richmond.—Alfalfa Corporation of Virginia, capital stock \$100,000, incorporated; James E. Cuthbert, president, Petersburg; George E. Murrell, vice-president, and E. S. Evans, secretary-treasurer, both of Richmond.

LUMBER MANUFACTURING

Ala., Anniston.—Anniston Lumber & Manufacturing Co. incorporated by Alonzo Dishman and associates.

Ala., Monroeville.—Dr. William C. Raynor of Milwaukee, Wis., will build hardwood sawmill; machinery partly purchased.

Ark., Pine Bluff.—Arkansas Short Leaf Lumber Co. (branch of Long-Bell Lumber Co. of Kansas City, Mo.) will build hardwood mill to have daily capacity 60,000 feet; output to include oak flooring; J. W. Mar-

tin of Pine Bluff is general manager of Arkansas company; latter wires Manufacturers Record: "Hardwood sawmill 40x158 feet; one band and resaw frame building on concrete base; 60,000 capacity; also drykiln and flooring factory in connection." (Recently mentioned.) (See "Machinery Wanted.")

Ark., Warren.—Texas Hardwood Lumber Co. (recently noted incorporated, capital stock \$75,000) states is overhauling old sawmill and installing machinery costing about \$5000; operation probably within 60 days; tract of five acres, mill and improvements to cost about \$70,000; daily capacity, 40,000 feet oak, gum and hickory; Samuel Beck, president and treasurer; M. B. Entler, vice-president and secretary.

Fla., Orlando.—Currie Manufacturing Co., capital stock \$100,000, incorporated; D. W. Currie, president; W. L. Branch, vice-president; L. W. Crow, secretary; W. H. Leonard, treasurer.

Fla., Zuber.—Sumner Lumber Co., T. E. Williams, president, and M. G. Davis, manager, will rebuild drykiln noted burned; 20x30 feet; ordinary construction building; contractor, L. Moore Drykiln Co., Jacksonville, Fla.; John W. Zuber is vice-president.

Ga., Thomasville.—W. M. Coon Company, capital stock \$5000, incorporated by W. M. Coon, W. C. Snodgrass and W. J. Dopson.

La., Baskin.—West Virginia Timber Co., Charleston, W. Va., is purchaser of 22,000 acres hardwood timber land recently noted sold by John W. Kesterson.

La., Folsom.—Folsom Lumber Co. organized with J. D. Kerr, president, Ramsay, La.; A. S. Norrid, vice-president, Folsom; H. F. Pye, secretary-treasurer, St. Louis, Missouri.

La., Glenmora.—Clark Bros. will build mill.

La., McNary.—McNary Lumber Co., capital stock \$500,000, chartered by W. M. Cady and B. E. Smith of McNary, H. I. Miller of New York, J. S. Reynolds and James G. McNary of El Paso, Tex.; acquired 28,000 acres pine timber land; will build large sawmill; W. M. Cady is president; telegraph address, Glenmora, La.

La., New Orleans.—Louisiana Tie & Timber Co., capital stock \$50,000, incorporated; W. J. Loughridge, president; Joseph A. Humphreys, vice-president; Mrs. Fannie C. Loughridge, secretary-treasurer.

La., Kinder.—J. H. Williams, Jr., president Calcasieu Valley Lumber Co. (recently noted organized, etc.) advises company has sold timber and will not build proposed mill.

La., Port Barre.—St. Landry Realty Co. is installing hardwood mill of 75,000 feet daily capacity; construction by Fred. W. Austin, Box 357, Mobile, Ala. (Present address, Port Barre.)

La., Thibodaux.—F. B. Williams Company of Patterson, La., purchased timber land for \$107,250 and will develop.

La., Washburn, P. O. at Keatchie.—Washburn Lumber Co., T. E. Stephenson, president, Shreveport, La., will rebuild sawmills and drykilns recently reported burned; estimated loss, \$30,000.

Miss., Wautubbee, R. F. D. from Enterprise.—Ruby Lumber Co., capital stock \$20,000, incorporated by E. S. Bostick, W. L. Bostick, J. W. Bostick and W. O. Chipman, all of Meridian, Miss.

Mo., St. Louis.—Brookings Timber & Lumber Co., capital stock \$2000, incorporated by Robert S. Brookings, Joseph W. Lewis, Walter D. Condie and others.

N. C., Monroe.—Boyle-Tucker Lumber Co., capital stock \$25,000, incorporated by G. M. Tucker, J. H. Boyle, E. E. Williams and others.

N. C., Pensacola.—Carolina Spruce Co. is proceeding with erection of plant; ordinary construction buildings for eight-foot band mill and resaw; W. H. McMullen, Johnson City, Tenn., architect and construction engineer; machinery, including planing and band mill, cars and woods equipment, purchased at cost of \$75,000; daily capacity 90,000 feet spruce and hardwood; C. S. Aldrich, Johnson City, Tenn., president and manager; Chas. K. Parry, Philadelphia, Pa., vice-president; L. E. Faulk, secretary; C. A. Oberlin, treasurer.

Tex., Houston.—Hardin Lumber Co. increased capital stock from \$20,000 to \$50,000.

Tex., Manning.—Carter-Kelly Lumber Co. is rebuilding planing mill recently noted burned; machinery, etc., purchased.

Tex., Nacogdoches.—Hoya Lumber Co. organized; purchased 50,000,000 feet standing timber from Henry Hoya and others; build sawmill to have daily capacity 25,000 feet.

Tex., Orange.—Miller-Lank Lumber Co. will

build shaving-house; reinforced concrete; 30x50 feet; 30 feet high.

Va., Grundy.—Levisa Land & Timber Co., E. R. Boyd, president (recently noted incorporated, \$50,000 capital stock), organized to deal in timber and coal lands; will not operate at present.

Va., Mill Dam, P. O. St. Brides, Va.—Mill Dam Lumber Co. will be incorporated; erect 40x100-foot building and 20x50-foot engine-room; office, warehouse and wharves practically completed at cost of about \$7000; planing-mill and box machinery also practically purchased; daily capacity, 30,000 feet flooring, ceiling, fruit box shooks, shingles, etc.; W. T. Zepp, Norfolk, Va., construction engineer.

Va., Richmond.—Wells-Davis Manufacturing Co., capital stock \$25,000, incorporated; J. W. Jefferies, president, Midlothian, Va.; R. H. Bruce, vice-president; R. B. Davis, secretary.

Va., Richmond.—Hamilton Ridge Lumber Corporation, capital stock \$500,000, incorporated; J. R. Paschall, president; C. Boice, vice-president; James Mullen, secretary; Thomas Gresham, treasurer.

METAL-WORKING PLANTS

Mo., St. Louis.—Steel Ladders.—Safety Steel Ladder Co., 810 Olive St., will manufacture (probably by contract) steel ladders for railroad cars exclusively; will not erect plant at present; Charles F. Palmer, president; Charles R. Crockwell, vice-president; F. E. Palmer, secretary-treasurer. (Recently noted incorporated with \$5000.)

N. C., Salisbury.—Culverts.—V. Wallace & Sons awarded contract to C. R. Propst of Salisbury to erect building to be equipped and occupied by Salisbury Metal Culvert Co. for plant to manufacture metal culverts for roads. (Recently noted.)

MINING

Ala., Birmingham.—Iron.—Chilton County Ore Co., 1429 Brown-Mart Bldg., capital stock \$150,000, incorporated; John N. Coffin, president; H. C. Rydell, vice-president; L. T. Beecher, secretary-treasurer. Mr. Coffin advises: "Holding company only, for the present at least"; acreage 5000.

Ala., Woodward.—Iron.—Woodward Iron Co. of Birmingham, Ala., will, it is reported, undertake additional developments at No. 1 ore mines on Red Mountain; awarded construction contract to Sullivan, Long & Haggerty Contracting Co. of Bessemer, Ala.

Miss., Hattiesburg.—Gravel.—S. J. Ferguson of Meridian, Miss., purchased 27 acres land and will build gravel plant.

Mo., Joplin.—Dutchman's Dream Manufacturing Co., capital stock \$100,000, incorporated by W. W. Reardin and W. S. Watson of Joplin and Stanley Watson of Kansas City, Mo.

Mo., Joplin.—Lead and inc.—Forum Mining Co., 311 Commerce Bldg., Kansas City, Mo., recently noted incorporated (under Kansas City) with \$5000 capital stock, will develop 35 acres; E. P. Chase, president; A. L. Wagstaff, secretary.

Mo., Spring City, R. F. D. No. 1 from Joplin.—Lead and Zinc.—Lu Lu V. Mining Co., 503 Victor Block, Kansas City, Mo., T. L. Timmons, president, will develop 60 acres; install mining and milling machinery; date of opening bids not set. Address H. Pelffer, treasurer and manager.

Mo., Webb City.—Lead and Zinc.—Lawton Mining Co., capital \$10,000, incorporated by C. C. Yoder, James Hepper, T. W. Hill and others.

Mo., Webb City.—Lead and Zinc.—Garden Glow Mining Co. will clean up mines; daily output, 10 tons concentrates; W. R. Camkins, president; G. H. Worthington, vice-president; S. K. Ortt, secretary, treasurer and manager. (Recently noted under Thoms Station.)

N. C., Lincolnton.—Tin.—Piedmont Tin Co. will sink vertical shaft 500 feet deep and install machinery to increase output; is reported as to expend \$50,000; F. Q. O'Neill, Charleston, S. C., is president.

Okla., Edmond.—Alta Vista Mining & Milling Co., capital stock \$25,000, incorporated by J. T. Dickerson and Carrie Dickerson of Edmond, and C. O. Fowler of Oklahoma City, Okla.

Tex., Belton.—Rock.—William O'Donnell and associates will reopen Lantry Sharp rock quarries; one mile from Belton. Mr. O'Donnell will be manager.

Tex., El Paso County.—Lead, etc.—Thomas Love of Sierra Blanca, Tex., and associates will further develop Bonanza mine in El Paso county, producing lead, zinc and copper; sinking new shaft.

Tex., Vanhorn.—Copper and Silver.—W. L. Lansing of St. Louis, Mo., and associates will develop copper and silver mines in El Paso county.

MISCELLANEOUS CONSTRUCTION

Ala., Three Branches, P. O. at Tuscaloosa.—Coaling Station.—Alabama & New Orleans Transportation Co., New Orleans, La., has plans for proposed coaling station; plant location on Black Warrior River, three-fourths of a mile above Lock 13; report states Fairbanks-Morse Company, Chicago, Ill., has contract, and that J. D. Kane will be construction superintendent at site. J. H. Bernard, general manager of Alabama & New Orleans Corporation, New Orleans, wires Manufacturers Record: "Loading plant to cost total of \$95,000; contain washer, tipple, coal storage; 200x20 feet; coal pockets capacity, 14,000 tons; conveyors and elevators will load barge at 500 tons per hour; entire building of reinforced concrete construction; also power-house of 150 horse-power capacity, 12 coke ovens and tramway sidings amounting to 8000 feet."

La., Shreveport.—Levee.—Commissioners Caddo Levee District, J. M. Sentel, president, awarded contract to Mike Hunt of Shreveport, La., to construct 95,000 cubic yards of Brown Place levee in Caddo parish, right bank Red River. (Call for bids lately noted.)

La., Donaldsonville.—Levee.—Lafourche Basin and Atchafalaya Levee Board will consider strengthening of dam at head of Bayou Lafourche.

La., Shreveport.—Houston & Shreveport Railroad, A. W. Cheesman, general agent, Shreveport, and Texas & Pacific Railway, C. H. Chamberlin, chief engineer, Dallas, Tex., have plans for subway under tracks at Linwood Ave.; estimated cost \$16,000.

La., Shreveport.—Board of Commissioners, Caddo Levee District, will construct bank protection work in following reaches: Scott's Slough reach, approximate length of revetment, 2500 feet; Rattling Slough, 2500 feet; Havana, 2500; Corner Place, 200; Fire Point, 2000; Silver Point, 2000; Twelve-Mile Bayou, 2000; Dixie, 2000; Lucas, 2000; Leonard, 2500; Long Point, 2000; Campo Bello, 2000; information with Board of State Engineers, 213 New Orleans Canal Bldg., New Orleans, La., or with W. A. Kerley, secretary, and J. M. Sentel, president; bids received until 12 noon March 5. (See "Machinery Wanted.")

Miss., Biloxi-Channel.—W. G. Seaver, promoter of Mississippi Northwestern Railroad, will arrange to secure funds for dredging deep-water channel from Back Bay Harbor to deep water in Gulf.

Miss., Clarksdale.—Levee.—Levee Board will enlarge levee sections 69, 70 and 71, containing about 375,000 cubic yards, and levee sections 13H to 18H, inclusive, containing 850,000 cubic yards; bids received until January 17; T. G. Dabney, chief engineer. (See "Machinery Wanted.")

Mo., Kansas City.—Flood Protection, etc.—City voted \$750,000 bond issue to construct levees, dikes and other works for protection of property from floods and overflow; \$200,000 to purchase sites and build garbage-disposal plants, and \$100,000 to construct, improve or enlarge tuberculosis hospitals; defeated following: \$450,000 for design, construction, equipment, improvement or extension of bridge and viaducts and approaches thereto; \$300,000 to construct or improve streets; \$250,000 to improve Swope Park; \$450,000 to improve public parks, parkways and public playgrounds; \$150,000 to purchase sites for enlarging city's workhouses and houses of correction; Henry L. Jost, Mayor. (Recently mentioned.)

N. C., Southport.—Pier.—Wilmington, Brunswick & Southern Railway, Z. W. Whitehead, president, Murchison Bank Bldg., Wilmington, N. C., awarded contract to James Williams of Wilmington, N. C., to construct pier. (Recently mentioned.)

Tex., Anahuac.—Bulkhead.—Commissioners Trinity River Irrigation District, J. E. Broussard, president, awarded contract to C. R. Cummings of Houston, Tex., at \$39,400 to construct bulkhead across Trinity Bay.

Tex., Galveston.—Bulkhead.—City will construct about 75 linear feet concrete bulkhead, etc. (See "Roads and Streets" and "Machinery Wanted.")

Va., Norfolk.—Seawall.—Beautification Commission, W. H. Sargeant, Jr., chairman, will introduce ordinance in City Council providing for appropriation of \$11,000 for construction of seawall on south side of Smith's Creek from Ghent Bridge to Duke St.; necessary drains estimated to cost \$4000 additional.

MISCELLANEOUS ENTERPRISES

Ala., Prattville—Contracting.—Nixon-Smith Construction Co. organized with McQueen Smith, president; William Howard Smith, vice-president; J. E. Nixon, secretary-treasurer; will contract to build roads. (Recently noted incorporated with \$15,000 capital stock.)

Ark., McGehee—Laundry.—White Swan Laundry awarded contract to T. H. Huddleston, McGehee, to erect recently-noted building; pressed brick; 30x50-foot brick and wood structure; laundry machinery purchased. (See "Machinery Wanted.")

Ark., Pine Bluff—Grain Elevator.—Westbrook Grain & Commission Co. has plans by W. T. Field, 3034 Leslie Bldg., Kansas City, Mo., for 15,000-bushel grain elevator and warehouse, 100x200 feet; fireproof construction; bids opened January 15; machinery contracts let; daily capacity of plant, 10 cars grain and grain products. (Recently noted.)

Ark., Little Rock—Printing.—H. G. Pugh Printing Co., capital \$25,000, incorporated; H. G. Pugh, president; R. L. Fletcher, vice-president; W. J. McInturf, secretary-treasurer.

Ga., Rome—Plumbing, etc.—Walker Electric & Plumbing Co., capital stock \$25,000, incorporated by R. M. Walker, D. T. Beggs, K. D. White and others.

La., New Orleans—Drainage.—Terrehoone Reclamation Co., capital stock \$100,000, incorporated to undertake general contracting, reclamation and drainage work; George W. Reese, president; O. W. Crawford, vice-president; C. M. Eisman, secretary-treasurer.

La., New Orleans—Printing and Advertising.—Myers Printing & Advertising Co., capital stock \$25,000, incorporated; Buford M. Myers, president; Earl B. Edwards, vice-president; Mrs. Henry R. Myers, treasurer; L. G. Negrotto, secretary.

La., New Orleans—Publishing.—Sport Publishing & Printing Co., capital stock \$10,000, incorporated; D. E. Phillips, president; Peter Hamilton, vice-president; D. J. Tortorich, secretary-treasurer.

La., New Orleans—Carpet Cleaning.—Sanitary Carpet Cleaning Co. will erect two-story building at Willow and Milan Sts.; J. A. Petty has contract.

Ky., Louisville—Contracting.—A. C. Dearing Company, capital stock \$10,000, incorporated by Anderson C. Dearing, Mrs. Frances Leuman and William G. Dearing.

Mo., Bloomfield—Dredging.—Bloomfield Dredging Co., capital \$50,000, incorporated by Stephen B. Hunter, Robert Jackson, James A. Reed, William F. Smith and Lynn Stallcup.

Mo., Caruthersville—Grain Elevator.—Valley Grain & Elevator Co., capital \$25,000, incorporated by H. C. Lewis, H. C. Schult, J. S. Wahl and others.

Mo., Kansas City—Garbage Disposal.—City voted \$500,000 bond issue to purchase sites and build garbage-disposal plants; Henry L. Yost, Mayor. (See "Miscellaneous Construction.")

Mo., Kansas City—Drugs.—Baltimore Drug Co., capital \$60,000, incorporated by J. C. Wolcott, P. B. Montague, S. W. Wright, E. A. Smith and W. D. Carlin.

Mo., St. Joseph—Cleaning and Dyeing.—Star Cleaning & Dye Works, capital \$3000, incorporated by George S. Harris, K. A. McDonald and C. L. Burton.

Mo., St. Louis—Contracting.—Afton Construction Co. incorporated by Henri Chouteau, George B. Bowles and J. G. Hughes; capital stock \$3000.

Mo., St. Louis—Laundry.—Frederick W. Schnab, owner Newport Laundry, will build addition to plant, practically doubling capacity.

Mo., St. Louis—Laundry.—Central Lace Curtain Laundry Co. incorporated by J. M. Mulkey, A. D. Branham, J. Kovitsky, A. G. Newberry, M. T. Rovitsky and Max F. Ruler; capital stock \$50,000.

N. C., Charlotte—Milk Depot.—John A. Berryhill will establish milk depot; leased two-story building at 19 W. 5th St.; will repair and equip; install cold storage plant.

N. C., Henderson—Contracting, Plumbing, etc.—Electro-Apppliance & Construction Co., capital \$10,000, incorporated; C. G. Cornwell, president and manager; C. E. Dirshman, vice-president; L. E. Markham, secretary; C. F. Williams, treasurer; general contracting, plumbing, roofing and electrical business.

N. C., Pine Level—Hardware.—Pine Level Hardware Co., capital stock \$25,000, incorporated by D. P. Crocker, Clarence I. Godwin and B. Godwin.

N. C., Raleigh—Moving-picture Supplies.—

Aronson & Brown Moving-Picture Supply Co., capital stock \$25,000, incorporated by B. S. Aronson, O. R. Browne and Murray Allen.

Okla., Hobart—Contracting.—Southwestern Building Co., capital stock \$30,000, incorporated by R. E. Nye, B. W. Cuppy and J. L. Burkner.

S. C., Kingstree—Hardware.—Williamsburg County Hardware Co., capital stock \$12,000, incorporated; W. C. Claghorne, president-vice-president-treasurer; E. E. King, secretary.

S. C., Columbia—Publishing.—Daily Record Publishing Co. will erect newspaper plant; three stories; plate-glass windows in basement; printing presses in basement; plans by James Bright of New York; T. A. Kennedy, superintendent of construction.

Tex., Houston—Plumbing.—N. O. Nelson Company, capital stock \$100,000, incorporated by C. W. Furman and H. S. Filton of Houston, N. O. Nelson, S. J. Hillebert and J. A. Senkosky of St. Louis, Mo.; will occupy portion of Hermann Building at Preston Ave. and Smith St.; wholesale plumbing; branch of N. O. Nelson Manufacturing Co., St. Louis, Mo.

Tex., Jacksonville—Hardware.—Sam D. Goodson Hardware Co., capital stock \$25,000, incorporated by Sam D. Goodson, R. O. Watkins and F. L. Devereux.

Va., Richmond—Contracting.—Southern Wrecking & Metal Co., capital stock \$15,000, incorporated; Geo. Smith, president; M. F. Pollard, vice president; R. T. Pollard, secretary and treasurer.

W. Va., Bluefield—Laundry.—Matz Hotel Co. will build steam laundry to be operated in connection with hotel; reinforced fireproof construction; operated by Brown Bros. and known as Troy Steam Laundry.

W. Va., Martinsburg—Laundry.—Kisner & Bender will establish steam laundry; erecting building.

MISCELLANEOUS FACTORIES

Ala., Birmingham—Bottling.—Oza-Ola Bottling & Syrup Co., capital stock \$2100, incorporated; W. C. Morris, president; E. A. Rat, vice-president; Ada Z. Nelli, secretary-treasurer.

Ala., Birmingham—Bottling.—Birmingham Coca-Cola Bottling Co. increased capital stock \$15,000 to \$50,000.

Ark., Fort Smith—Folding Screens.—Penda Folding Screen Co., W. L. Russ, president, has leased building 25x60 feet; will manufacture folding screens of all kinds and sizes for protection from flies and mosquitoes; machinery will include 50 sewing machines, wire bending and stapling machines, etc. (Recently noted incorporated with \$10,000 capital stock.)

Ark., Little Rock—Incinerators.—McCall Incinerator Co., capital stock \$25,000, will be incorporated to manufacture incinerators invented by Dr. J. H. McCall of Memphis, Tenn.; incinerator is intended for schools, small towns, hotels, etc.; C. W. Garrison, president; Dr. J. F. Hammett, secretary-treasurer; both of Little Rock; offices in Chamber of Commerce Bldg.; Little Rock office will handle Arkansas trade. (Previously noted.)

Fla., St. Petersburg—Bakery.—Noel A. Mitchell is interested, it is reported, in installation of bakery in store building on Central Ave.

Fla., Tarpon Springs—Bakery.—Acme Bakery Co. will occupy building to be erected on Lemon St.; will install additional equipment.

Fla., Pensacola—Glue.—E. E. Saunders & Co., E. W. Fowler, manager, placed orders for machinery (including boilers, evaporators, dryers, etc.) for glue plant recently noted under "Fertilizer Factories"; contemplate operation within 90 days; erect \$2500 building.

Ga., Atlanta—Auto Tops.—H. C. Johnson has commissioned Whitaker & Hill, Forsythe Bldg., Atlanta, to prepare plans and award contract for erecting plant to be occupied by Atlanta Auto Top & Trimming Co.; two stories; 75x100 feet; metal windows; brick; cost \$15,000; contract let within 10 days. (Previously noted.)

Ga., Lagrange—Bottling.—S. P. Ward of Opelika, Ala., will establish bottling works.

Ga., Thomasville—Artificial Palms.—B. W. Walker will establish plant to manufacture artificial palms and small artificial decorative plants; operate as Dixie Farm Co.

Ky., Lancaster—Creamery.—Bluegrass Dairy & Ice Co., capital stock \$10,000, incorporated; will establish creamery and ice plant; latter to have daily capacity of 7½ tons; H. V. Bastin, president-general manager.

Ky., Louisville—Corrugated Paper.—Kentucky Corrugated Paper Co. increased capital stock to \$20,000.

Ky., Louisville—Tires.—Speedway Tire Co., capital stock \$250,000, incorporated; preparing to award contracts for tire factory; operate by electricity, probably with central power station; proposes to secure buildings for temporary plant to begin manufacture at once; H. L. Lewman (chairman Falls City Construction Co.) is president; W. N. Cox (president Louisville Public Warehouse Co.) is treasurer. (Recently noted.)

La., Lake Charles—Pepper Sauce.—Louisiana Tabasco Pepper Co., capital stock \$10,000, incorporated by H. C. and H. F. Ehrman of Lake Charles and William Swan of New Orleans, La.; will cultivate tabasco peppers and manufacture sauce.

Ky., Paducah—Tobacco.—Smith & Scott Tobacco Co. is reported to build plant to manufacture plug tobacco; cost \$50,000; company advises Manufacturers Record: "At this time do not contemplate enlargement of our plant before July of 1914."

Ky., Paducah—Medicine.—Paducah Medicine Co., capital stock \$10,000, incorporated by R. A. Hays, M. J. Potter and W. M. Ruoff.

La., New Orleans—Mills Press Co. has plans by Walter C. Keenan of New Orleans for factory building at Constance and Poye-farre Sts.; four stories; brick; composition roof; elevators, boilers, etc.

Md., Baltimore—Underwear.—Hamberger, Wolf & Weiller, Carroll and Bayard Sts., will rebuild underwear factory recently burned at loss of about \$30,000; building owned by Mrs. Anna Ferguson.

Md., Cumberland—Waste Paper.—Abe Gross is promoting establishment of waste-paper plant.

Miss., Columbia—Bottling.—Columbia Coca-Cola Bottling Co. organized by A. J. Crowe of Hattiesburg, J. C. Miller of Bogalusa, La., and A. Evans of Orisburg, Miss.

Mo., Joplin—Chemical Products.—Home Chemical Products Co. of St. Louis, Mo., contemplates establishing plant.

Mo., Kansas City—Serum.—Federal Serum Co., capital \$10,000, incorporated by J. C. Minor, C. C. Bridgeford, J. C. Swift and others.

Mo., Kansas City—Nail-Kirkpatrick Manufacturing Co., capital \$50,000, incorporated by J. B. Nail, J. S. Kirkpatrick, J. W. Sleight and others.

Mo., Kansas City—Cigars.—Bert & Russell Cigar Co. of Missouri, capital \$150,000, incorporated by George H. Wilson, Rollin E. Talbert, A. B. Adair and others.

Mo., St. Louis—Brewery.—Griesedieck Bros. Brewery Co. applied for authority to increase capital stock from \$150,000 to \$250,000.

Mo., St. Louis—Rugs, etc.—Renard Linoleum & Rug Co., L. Renard, president (recently noted incorporated, \$250,000 capital stock), is jobber and manufacturers' agent.

Mo., St. Louis—Bakers and Confectioners, Supplies.—Mound City Bakers & Confectioners' Supply Co. incorporated by Ferd F. Weill, Edgar D. Weiss, Charles E. Tommers and Theodore B. Kicker; capital stock \$8000.

Mo., St. Louis—Bottling.—Mutual Brewing Co., 236 S. Boyle Ave., will erect storage-house, 55x71 feet; seven stories; fireproof construction; William Griesser, Boyle and Duncan Sts., St. Louis, architect and engineer in charge; annual capacity 250,000 barrels of beer. (Previously noted as to enlarge bottling and storage departments, erect apartment-house for employees, etc.)

Mo., St. Louis—Liquid Receptacles.—Liquid Manufacturing Co., capital stock \$2500, incorporated by John A. Hurster, W. D. McClain and Taylor E. Young; to manufacture receptacles for dispensing of liquids, etc.

Mo., St. Louis—Bags and Burlap.—Werthan Bag & Burlap Co., capital stock \$75,000, incorporated by Morris Werthan, M. M. Werthan, B. Duddy and others.

Mo., St. Louis—Clothing.—H. Toder Garment Co. (recently noted incorporated, \$15,000 capital stock) will continue established plant; no further machinery needed.

Mo., St. Louis—Inhaler.—Promo Manufacturing Co., capital stock \$50,000, incorporated by David Davison, Owen McCaughey, John M. Kreider and Hester McCre.

Mo., St. Louis—Coffee.—Good-Johnson Coffee Co., capital stock \$10,000, incorporated by J. Johnson of St. Louis and M. S. Good and J. R. Good of Kirkwood, Mo.

Mo., St. Louis—Clothing.—Criterion Garment Co., capital stock \$5100, incorporated by Frank Kahn, Paul Holzman and Sam Freedman.

Mo., Springfield—Fifth Wheels.—W. R.

Ball-Bearing Fifth-Wheel Co., capital \$20,000, incorporated by W. R. Owen, John Nee, R. T. Emery and R. W. Emery.

N. C., Gastonia—Brooms.—H. W. Hawkins will enlarge broom factory.

N. C., High Point—High Point Manufacturing Co., F. E. Creelman, president, will double capacity of plant.

N. C., Raleigh—Powder.—Union Metallic Cartridge Co. of Bridgeport, Conn., purchased two acres land and will build plant to manufacture detonating powder.

N. C., Raleigh—School Supplies.—Southern School Supply Co., 105 W. Martin St. (recently noted incorporated, \$50,000 capital stock), will continue manufacture of school supplies; will not erect building this year; Chas. J. Parker, president and manager.

N. C., Raleigh—Bakery.—Mrs. C. M. Bretsch will build bakery at S. Blount and W. Morgan Sts.; two buildings; front structure to contain salesroom, flour storerooms, etc.; 80x60 feet; foundation and floors of concrete; superstructure of brick with stone trimmings; three flats on second floor with balconies on each street; bakery building in rear; 2x3x2 feet; brick and concrete; contain oven; total cost, \$15,000.

N. C., Salisbury—Bakery.—W. S. Nicolson will establish steam bakery; install equipment in Arey Bldg., Fisher and Main Sts.; machinery ordered; cost \$6000 to \$8000.

Okla., Tulsa—Wheels.—Tulsa Spring Wheel Co., capital stock \$50,000, incorporated by J. B. Dix Dunlap, Peter R. Delekman and W. T. Smith.

S. C., Greenwood—Bottling.—Greenwood Pepsi-Cola Co., capital stock \$5000, incorporated; J. A. Barksdale, president; John McKissick, vice-president-secretary-treasurer-general manager.

S. C., Spartanburg—Ice Cream.—Purity Ice Cream Co., J. H. Alman, proprietor, will establish ice-cream plant; install automatic brine freezers, mixers, can sterilizers and special mould for ice cream for parties, etc.; machinery ordered.

Tenn., Bristol—Metal Polish.—Volunteer State Mineral Co., Dr. I. Steinberg, manager, Nashville, Tenn., will soon award contract to erect plant to manufacture metal polish from yellow tripoli; first contract will call for one building 40x75 feet, two stories; and another building 20x50 feet, one story; provide about 7000 square feet of manufacturing space; plans prepared to permit of enlargement after beginning operations; mining property is located at Butler, Tenn.; loading shed there is about completed, and railway is preparing to lay sidetrack. (Recently noted organized, etc.)

Tenn., Bristol—Tanning Extract.—Dixie Tannery, Inc., G. Arthur Schieren, general manager, has taken over property of Holston Extract Co. (now dissolved); will build small plant and purchase some new machinery. (Holston Extract Co. subsidiary of Charles A. Schieren Company, 30 Ferry St., New York, recently noted to rebuild tanning extract plant.)

Tenn., Chattanooga.—Smith Manufacturing Co., capital \$50,000, incorporated by G. W. Smith, D. F. Beckham, J. C. Quentel, S. W. Thompson and Byron Gager.

Tenn., Nashville—Wheels.—Tennessee Seaton Wheel Co., capital stock \$25,000, incorporated by J. R. Tubs, S. S. Lord, F. S. Wheeler and others; subsidiary to Seaton Wheel Co., and will manufacture Seaton wheels at various points in Tennessee.

Tenn., Union City—Bottling.—Union City Coca-Cola Bottling Co., capital \$6000; incorporated by Hugh Smith, L. L. Smith, C. C. Clark, Erwin Clark and J. B. Clark.

Tex., Brownwood—Candy.—Walker-Smith Company will rebuild candy factory recently burned at loss of \$50,000.

Tex., Dalhart.—Hilburn Bros. Manufacturing Co., capital stock \$10,000, incorporated by T. A. Hilburn, L. W. Hilburn and B. L. Hilburn.

Tex., Dallas—Musical Instruments.—Automatic Music Manufacturing Co., capital stock \$50,000, incorporated by W. J. Gynn and C. Lamar of Dallas, Tex.; C. C. White and J. E. Weeden of Fort Worth, Tex.

Tex., Galveston—Brewery.—Galveston Brewing Co. awarded contract to Lisle & Dunning Construction Co. of Oklahoma City, Okla., to build bottling works; reinforced concrete, fireproof construction; main building two stories, 100x60 feet; adjoining to be one-story building, 160x45 feet; interior of both structures faced with enameled brick; daily capacity, 36,000 bottles; machinery ordered; also construct seamless copper pipe line and steel bridge across 34th St. from brewery to bottling plant; beer will pass over bridge through pipe line, emptying into

four Government tanks in bottling works of 100 barrels capacity each; tanks of steel with enameled brick facing, and maintained under special cold-storage system; estimated cost, \$100,000; Stowe & Stowe of Galveston prepared plans.

Tex., Houston—Candy.—Collins Candy Co., capital stock \$20,000, organized with J. M. Collins, president-treasurer, Temple, Tex.; J. Ivey McLain, vice-president, and J. D. Wharton, treasurer, both of Moody, Tex.

Tex., McAllen—Creamery, etc.—McAllen Creamery Co., R. E. Horn, president, is proceeding with erection and equipment of creamery; one story 60x25-foot brick and cement building; manufacture butter and ice cream. (See "Machinery Wanted.")

Tex., St. Jo—Creamery.—St. Jo Creamery Co., capital stock \$15,000, incorporated by James R. Wiley, Charles W. Gass and Leo Fulton.

Tex., Texarkana—Safety Locks.—National Safety Lock Co., capital stock \$25,000, incorporated by P. L. Hudson, A. C. Oliver, Jr., and A. S. Herrington.

Va., Lynchburg—Bottling.—Altavista Coca-Cola Bottling Works, capital stock \$15,000, incorporated; P. W. Lupton, president, Chattanooga, Tenn.; J. W. Lupton, vice-president, Lynchburg, Va.; H. K. Halley, secretary, Chattanooga, Tenn.

Va., Richmond—Bakery.—Sta-Kleen Bakery, capital stock \$10,000, incorporated; build bakery at Park Ave. and Wise Sts.; W. H. Adams, president; August Reinhardt, vice-president-general manager; T. L. Cobbs, secretary-treasurer.

W. Va., Wheeling—Davis Electrical Co., Parkersburg, W. Va., states will not establish plant; remain at Parkersburg. (Recently noted.)

MOTORS AND GARAGES

Ky., Louisville—Garage.—J. Wheeler McGee opens bids about January 20 to erect garage for Southern Motor Co.; to cover space 138x200 feet; plans by Arthur Loomis, Todd Bldg., Louisville. (Recently noted to cost \$75,000.)

N. C., Charlotte—Automobiles, etc.—Charlotte Wagon & Auto Co., capital stock \$50,000, incorporated by J. L. Owens, Thomas P. Moore and Frank A. Owens.

N. C., Maxton—Garage, etc.—Maxton Auto Co., A. J. McKinnon, president (recently noted incorporated, \$50,000 capital stock), succeeds A. J. McKinnon Company; will conduct general auto sales business, garage, plumbing and heating.

Okl., El Reno—Automobile.—Martin Motor Co., capital stock \$20,000, incorporated by R. D. Martin, W. H. Townsend and F. S. Randall.

Okl., Muskogee—Garage.—Klitto Garage, capital stock \$1000, incorporated by A. L. S. V. and Harry Klitto.

Tex., Houston—Garage.—Dr. J. M. Blair has plans by H. P. Rudessell & Son of Houston for garage at San Jacinto and Calhoun Sts.; 123x150 feet; concrete; one story; estimated cost \$8000; awarded contract for foundation. (Lately noted.)

RAILWAY SHOPS, TERMINALS, ROUNDOUSES, ETC.

Tex., Dallas—Missouri, Kansas & Texas Railway, A. M. Acheson, chief engineer, Dallas, will make various improvements in Texas during present year; plans to expend \$77,000 for trestles and culverts, \$70,000 for water and fuel stations, \$200,000 to improve and refurnish stations, depots, section-house, and to reconstruct present structures along lines, and \$27,000 for additional telegraph and telephone systems; also proposed to install interlocking plants, electric block signal towers and other safeguarding devices.

Tex., Hearne—J. W. Small, assistant general manager Houston & Texas Central Railroad Co., Houston, Tex., states company has no plans under consideration for changing or enlarging facilities at Hearne, as recently stated.

Tex., Pleasanton—San Antonio, Uvalde & Gulf Railroad, E. R. Breaker, chief engineer, awarded contract to erect roundhouse; diameter, 180 feet; circumference, 420 feet.

Tex., San Angelo—Gulf, Colorado & Santa Fe Railway, F. Merritt, chief engineer, Galveston, Tex., will build eight-stall roundhouse; cost \$10,000; replace burned structure.

ROAD AND STREET WORK

Ala., Gadsden.—City will pave Forest Ave. from 6th to 12th St.; proposed to lay concrete foundation and tar and gravel surface; estimated cost, \$20,000; City Engineer Charles L. Marsh will prepare plans and specifications.

Ala., Mobile.—Mobile County Board of Revenues is constructing about 50 miles of gravel and chert road; amount available for expenditure, \$500,000; contract awarded to Jett Bros. Contracting Co. of Mobile for 18 miles; to W. H. Holcombe for 10 miles, and to W. C. Perry of Montgomery, Ala., for constructing 10 miles; Jett Bros. Contracting Co. recently noted as having contract for two additional miles of Moffat Rd. (See "Machinery Wanted.")

Ala., Montgomery.—Montgomery county will gravel about six miles Carter Hill Rd. from Hayneville Rd. to Sandy Creek; bids received by Board of Revenue until noon January 20; Thomas H. Edwards, County Engineer. (See "Machinery Wanted.")

Ark., Paragould.—City contemplates street paving; E. I. McKinley, City Clerk.

Ark., Wynne.—Cross County Commissioners contemplate issuing bonds to construct about 30 miles of gravel road, construct steel draw and three other steel bridges and concrete culverts; Edward Hamilton, chairman. (Recently noted.)

Fla., Brooksville.—Hernando county will vote February 17 on \$100,000 bond issue for road construction. Address County Commissioners.

Fla., Clearwater.—Town receives bids until 7.30 P. M. January 21 for paving; vitrified brick and asphalt and bitumen; also storm sewers and curb and gutters; \$90,000 available; R. T. Daniel, Clerk. (See "Machinery Wanted.")

Fla., Jacksonville.—City will construct 93,826 square yards pavement on concrete base on various streets; bids received until February 10; L. D. Smoot, chief engineer; H. Gallard, chairman, committee on public works. (See "Machinery Wanted.")

Fla., Pensacola.—Escambia county will construct road in northwestern section of county.

Ga., Rome.—City awarded contract to Southern Asphalt & Construction Co. of Birmingham, Ala., to pave two blocks on E. 4th St., four blocks on Fourth Ave. and five blocks on Ave. A with sheet asphalt; total estimated cost, \$100,000; B. C. Yancey, Mayor. (Previously mentioned.)

Ky., Madisonville.—Hopkins county will construct several miles of roads during present year; bids opened; N. E. Stone, County Engineer.

La., Gueydan.—City reported to pave Main St.; O. M. Jones, Mayor. (See "Machinery Wanted.")

La., New Orleans.—Board of Commissioners, Port of New Orleans, will pave with small granite blocks on concrete foundation of roadway on river front from Nuns St. to Thalia St.; A. C. Bell, engineer, 200 New Orleans Court Bldg., New Orleans; William A. Kernaghan, president; bids received until January 22. (See "Machinery Wanted.")

Md., Baltimore.—Board of Estimates decided to expend entire \$1,000,000 appropriation to construct section of water-front street on south side of basin, instead of using portion of funds to build proposed dock at foot of Montgomery St.; Oscar F. Lackey, harbor engineer.

Md., Baltimore.—Commissioners for Opening Streets, Eugene E. Grannan, president, selected list of 35 streets to be paved during current year.

Md., Ellicott City.—Howard county will rebuild St. John's Lane, about two miles long. Address County Commissioners.

Md., Havre de Grace.—John F. Oldfield will build half-mile race track for stock farm.

Miss., Aberdeen.—Good Roads Commission, Supervisors' District No. 1, Monroe county, A. B. Cowden, secretary, will construct about 22 miles road; work and material includes 102,568 cubic yards earth, 2095 feet 18, 24, 30, 36 and 48-inch pipe, 125 cubic yards concrete, clearing and grubbing; bids received until 2 P. M. February 3; G. G. Ray, clerk Board of Supervisors. (See "Machinery Wanted.")

Miss., Poplarville.—Pearl River County Supervisors will issue \$25,000 of bonds for road improvements in Beat No. 1.

Miss., West Point.—Clay County Supervisors District No. 2 will construct 17 miles of road, together with necessary bridges and culverts; W. F. Lagrone, secretary; C. L. Wood, highway engineer; bids received until February 5. (See "Machinery Wanted.")

Miss., West Point.—Clay County Supervisors District No. 3 will construct nine miles of road; Tishomingo gravel or novaculite will be used for finishing surface; alternate bids on sand-clay road; also construct necessary bridges and culverts; E. K. Kennedy, secretary; C. L. Wood, Highway Engineer; bids received until February 5. (See "Machinery Wanted.")

Miss., Yazoo City.—Yazoo County Supervisors authorized \$300,000 bond issue for road construction; previous issue \$77,000 withdrawn.

Mo., Excelsior Springs.—Road District of Clay County voted bond issue to construct nine miles of rock road in Clay county between Kansas City and Excelsior Springs; cost \$65,000. Address County Commissioners, Liberty, Mo.

Miss., Natchez.—Adams County Supervisors invite new bids, to be opened at February meeting, for construction of 60 miles roads; \$150,000 available; each bid to be accompanied by certified check for \$250. (Contract recently reported awarded to Garretson-Brewer Construction Co. of Jackson, Miss., has been rescinded.)

Miss., Purvis.—Beat No. 5 of Lamar county votes January 14 on \$50,000 bond issue to construct roads. Address County Commissioners.

Miss., Waveland.—City will improve streets; bonds authorized. Address The Mayor.

Mo., Kansas City.—City defeated \$300,000 bond issue to construct or improve streets; Henry L. Jost, Mayor. (See "Miscellaneous Construction.")

N. C., Charlotte.—City awarded contract to Southern Paving & Construction Co., Chattanooga, Tenn., to pave E. Boulevard extended from Avondale Ave. to city limits, E. 9th, W. 7th and other streets; estimated cost \$50,000.

N. C., Charlotte.—City will issue \$50,000 of bonds for street improvements; Joseph Firth, City Engineer.

N. C., Halifax.—Halifax county will vote on \$300,000 bond issue for road construction. Address County Commissioners.

Tenn., Sevierville.—Sevier County Commissioners authorized \$180,000 bond issue for road construction.

Tex., Bloomington.—City will pave cement sidewalks. Address The Mayor.

Tex., Galveston.—City will construct pavement, bulkhead and drains on 37th St. from south line of Ave. A to south line of Ave. B; will require about 184 square yards vitrified brick or wooden-block pavement laid on 6-inch concrete base, 204 cubic yards extra concrete, 776 linear feet concrete bulkhead, 73 linear feet concrete drain and 40 linear feet 30-inch vitrified pipe drain; bids received until January 23; A. T. Dickey, City Engineer. (See "Machinery Wanted.")

Tex., Harlingen.—City votes February 3 on improving sidewalks, curbing, etc. Address The Mayor.

Tex., Houston.—Harris county contemplates voting on \$1,000,000 bond issue to improve paved roads and extend system to adjoining county lines. Address County Commissioners.

Tex., Marlin.—City contemplates paving streets. Address The Mayor.

Tex., Marshall.—City awarded contract to Dolanway Paving Co., 35 Liberty St., New York, to construct 12,000 square yards of Dolanway paving. (Call for bids recently noted.)

Tex., Waco.—City awarded contract to Dolanway Paving Co., 35 Liberty St., New York, for 3000 square yards of Dolanway paving. (Recently noted as to receive bids until December 31 to construct 25,325 square yards of paving.)

Va., Hampton.—City awarded contract to Louis Lawson of Norfolk, Va., to pave, gutter and sewer portion of Tyler St.; 625 square yards; railway company to pave between tracks and two feet on either side of same; cost to city \$2780.55; Girard Chambers, City Engineer.

Va., Norfolk.—Board of Control awarded contract to Continental Public Works Co. to pave 11th St.

Va., Richmond.—City will construct certain vitrified brick crossings and also certain granolithic curbs and gutters in South Richmond; bids received until January 16; Charles E. Bolling, City Engineer. (See "Machinery Wanted.")

W. Va., Edgewood, P. O. at Wheeling.—City awarded contract to Atlantic Bitulithic Co. of Richmond, Va., for 29,000 square yards bitulithic paving and about 3½ miles curbing; Orion Koller, civil engineer, Reilly Bldg., Wheeling; L. B. Kietzky, Town Recorder. (Call for bids lately noted.)

SEWER CONSTRUCTION

Ark., De Queen.—City contemplates constructing sewer system and water-works; R. E. Leslie, City Clerk; L. G. Ferrell, City Engineer.

Fla., Clearwater.—Town receives bids until

7.30 P. M. January 21 for storm sewers; R. T. Daniel, Clerk. (See "Road and Street Work" and "Machinery Wanted.")

Fla., West Palm Beach.—City awarded contract to Jordan & Stewart, 327 Austell Bldg., Atlanta, Ga., to extend sewer system.

Ky., Fort Thomas.—City will construct septic tank sewer system in Highlands district; City Trustees ordered surveys made.

Mo., Hannibal.—City Council approved plans and specifications by R. F. Smiley, City Engineer, for construction of sewers in District No. 100.

Mo., Maplewood.—City will construct sewers in Manchester Ave. between Big Ben Rd. and city limits; estimated cost, \$15,000.

N. C., Black Mountain.—Town awarded contract to construct sanitary sewer system; length, three miles. Address Town Clerk.

Tenn., Knoxville.—O'Connor Construction Co. of Knoxville (recently noted as receiving contract) has sublet work on Third Creek sewer to G. T. Galyon Company, Knoxville; 42-inch and 36-inch; brick and concrete; cost about \$80,000; J. Edgar Thompson, Knoxville, engineer in charge. (See "Machinery Wanted.")

Tex., Bishop.—City will construct sewer system; engineers have taken levels, etc., and prepared blueprints. Address City Commissioners.

Tex., Galveston.—City will construct 73 linear feet concrete and 40 linear feet 30-inch vitrified pipe drains, etc. (See "Roads and Streets" and "Machinery Wanted.")

Tex., Lufkin.—Lufkin Sanitary Sewer Co., S. M. Morris, president, will lay about nine miles of sanitary sewer pipe. (Recently noted.)

TELEPHONE SYSTEMS

Fla., Jacksonville.—Southern Bell Telephone & Telegraph Co. (main office, Atlanta, Ga.) will erect telephone exchange and extend underground conduit system; building will be 195x105 feet; reinforced concrete; six stories and basement; foundation to permit of four additional stories; commercial offices on first floor; probable that Western Union Telegraph Co. will occupy one floor; two operating rooms for local exchange switchboards and another operating room for long-distance switchboard; will occupy two floors; contracts awarded for building and equipment; estimated cost of building, \$125,000; estimated cost of equipment, \$125,000; plans contemplate construction of additional underground conduits on 65 city blocks; stations to be connected with underground system by "interior block" distribution plan; cost about \$50,000; cost of cable to be drawn through them, together with lateral and cut-ins, about \$100,000.

Ky., Owingsville.—Bath Home Telephone Co., capital stock \$50,000, incorporated by Ben T. Wright, R. L. Sharp, M. V. Bostain and W. R. Wright; consolidation of Sharp's Bath Home Telephone Co. and Bath Home Telephone Co.

N. C., Atkinson.—Pender Telephone Co., J. T. Hoggard, president, will extend and improve system.

N. C., Wilson.—Rock Ridge Telephone Co., capital stock \$1000, incorporated by R. L. Barnes, R. A. Boyette and others.

Tenn., Newbern.—Pural Telephone Co., capital \$5000, incorporated by J. H. Patterson, John Jones, R. E. Patterson, John M. Drane and M. E. Vaughan.

Tex., Alpine.—Pecos & Rio Grande Telephone Co. will construct direct copper telephone system from Alpine to Marfa; telephones on metallic circuit.

Tex., Dallas.—Dallas Automatic Telephone Co., J. C. Casler, president, will double present capacity of its five exchanges, now having connection for 10,000 telephones.

W. Va., Kearneysville.—Middleway & Shepherdstown Telephone Co. organized to operate telephone system; for present will use wires of United Telephone Co., which has county franchise; N. R. Roberts, president; D. Z. Royer, vice-president; W. F. Wilt, secretary-treasurer.

TEXTILE MILLS

Ala., Alexander City.—Kuit Goods.—Russell Manufacturing Co. will add 5016 spindles and accompanying machinery, duplicating present equipment; erecting 112-foot 5-inch by 145-foot mill addition and 60 by 190-foot warehouse addition of brick mill construction.

Miss., Water Valley.—Cotton Yarns.—Yokona Mills will build addition for dyehouse and winding room.

N. C., Randleman.—Cotton Cloth.—Deep River Mills will, it is reported, construct

addition for weaving mill and build cement dam across Deep River.

Okl., Oklahoma City.—Cotton Goods.—Cotton Mills Securities Co. organized with H. W. Williams as president, W. B. Smith Whaley vice-president, W. B. Watkins treasurer, Milton Bryan secretary; plans contemplate organizing \$10,000,000 corporation to build mill with ultimate equipment 600,000 spindles and 15,000 looms. (Mr. Williams is of Western Guaranty & Trust Co., lately mentioned as planning cotton-mill company.)

Tenn., Clinton—Hosiery.—Magnet Knitting Mills expect to add few more machines from time to time and gradually increase production. (Previously mentioned as having increased capital stock from \$50,000 to \$75,000.)

Tenn., Englewood—Cotton Yarns.—Eureka Cotton Mills will, it is reported, install electric drive for entire plant; recently installed some electrical equipment.

Tex., El Paso—Cotton Goods.—F. W. Clay proposes organization of company to build cotton mill; probably \$500,000 capitalization.

Va., South Richmond—Woolen Goods.—E. C. Brinser's Sons, capital stock \$50,000 authorized, incorporated with H. D. Brinser, president; O. D. Brinser, vice-president; J. W. Brinser, secretary-treasurer.

W. Va., Martinsburg—Hosiery.—Interwoven Mills writes to Manufacturers Record: "Not yet ready to make announcement concerning location of new plant we expect to erect, nor able to give any definite information about it." Present equipment, 1000 knitters, dyeing and finishing machinery, etc. (Previously reported as to erect additional building.)

WATER-POWER DEVELOPMENTS

Ga., Atlanta.—Georgia Railway & Power Co. is negotiating for purchase of transmission lines in Georgia of East Tennessee Power Co., and will probably complete plans for this acquisition.

Ga., Mathis Station.—Georgia Railway & Power Co., Atlanta, Ga., awarded contract to Hardaway Contracting Co., Columbus, Ga., to complete dam and power-house under construction; dam 65 feet high with small power-house; about one-fourth of masonry has been placed; will complete construction as promptly as possible.

Ky., Elizabethtown.—Tygart Valley Water-Power & Electric Co., capital stock \$20,000, incorporated by D. H. Hall, W. F. Carter, George Snider and W. W. Carter.

N. C., Randleman.—Deep River Mills will, it is reported, build cement dam across Deep River. (See "Textile Mills.")

N. C., Murphy.—City will construct hydro-electric plant to cost \$60,000; J. B. McCrary Company of Atlanta, Ga., is preparing plans.

Okl., Tulsa.—C. P. Chenault is reported as representing capitalists proposing to construct hydro-electric plant to transmit electricity to Tulsa, Oklahoma City, Muskogee, Vinita and other cities; contemplate diverting Arkansas River at Ox Bow Bend, in Osage Nation, 60 miles northwest of Tulsa, and building second dam at another site; to develop 42,000 horse-power; two plants to cost \$200,000 and transmission system \$200,000.

W. Va., Huntington.—Tri-State Power & Milling Co., \$600,000 authorized capital, incorporated by C. L. Stearnes and R. W. Kline of Salem, Va.; H. M. Fox of Roanoke, Va.; Z. T. Vinson and A. E. Bush of Huntington; acquired water-powers along New River in Summers, Mercer and Monroe counties, West Virginia, and Giles county, Virginia, capable of developing 50,000 to 60,000 horse-power; will build hydro-electric plants and systems for transmitting electricity in West Virginia, Kentucky and Ohio. Mr. Stearnes is president, and he writes to the Manufacturers Record: "Sufficient unanual backing is assured for immediate purposes; when plans are more fully matured a detail statement of proposed developments, character of construction, etc., will be made."

W. Va., Charleston.—A. B. Leach & Co., 149 Broadway, New York, wire Manufacturers Record: "Plans for transmitting electricity to Cincinnati not complete; matter being considered." This refers to reports that West Virginia Power Co., developing New River water-power, will extend its transmission wires as far as Cincinnati. (Hydro-electric details heretofore reported.)

W. Va., Milton.—City awarded contract to Ullom & Scanlon of Huntington, W. Va., to construct water-works.

WATER-WORKS

Ark., De Queen.—City contemplates constructing water-works and sewer system; R. E. Leslie, City Clerk; L. G. Ferrell, City Engineer.

Ark., Paragould.—City will extend water mains; E. I. McKinley, City Clerk.

D. C., Washington.—William Rothwell & Son, 1120 18th St. N. W., Washington, are lowest bidders at \$11,896 to construct pump-house and lodge at 18th St. and Minnesota Ave., Anacostia, D. C.; William V. Judson and others commissioners are District Commissioners. (Call for bids lately noted.)

Fla., St. James City.—Sisal Hemp & Development Co. is installing water-works.

Ky., Ludlow.—Ludlow Water Co. contemplates extending pipe line to Bromley, Ky.

La., Baton Rouge.—Baton Rouge Water-Works Co.'s reservoir (recently noted) will be 59x120x20 feet; capacity 1,000,000 gallons; Alvord & Burdick, engineers, Chicago, Ill.; bids received until February 20; John H. Wood, secretary and manager. (See "Machinery Wanted.")

La., Donaldsonville.—Municipal Light & Water Commission, J. E. Blum, secretary, receives bids until 11 A. M. January 15 to erect power-house; plans on file with E. A. Thibodaux, superintendent. (Previously noted to install Diesel engines and other machinery and erect 40x50-foot brick building.)

La., Grand Coteau.—A. D. Smith advises that city contemplates installation of water system. (See "Machinery Wanted.")

La., Lafayette.—City will install three boilers, electric generator and air compressor in water and light plant; A. R. Trahan, Mayor.

La., Mansfield.—J. W. Parsons, Mayor, states that on account of legal technicality, previously-noted bond election was not held; another election contemplated for near future.

N. C., Raleigh.—Wake Water Co. contemplates building dam on Walnut Creek above water-works intake; Gilbert C. White of Charlotte, N. C., is engineer.

Okl., Ponca.—Charles Halstead of Breckenridge, Mo., has contract at \$5945 to improve water-works; plans by Burns & McDonnell, Scarritt Bldg., Kansas City, Mo.

Tex., Brownwood.—City contemplates constructing reservoir with capacity of 2,000,000 gallons and complete filtration plant; Mark E. Ragsdale, City Engineer.

Tex., Bryan.—City will install water tower; bids opened January 30 on towers of 100,000 and 150,000 gallons capacity; Geo. Wecker, City Secretary. (See "Machinery Wanted.")

Tex., Madisonville.—Town contemplates constructing water-works; proposes to issue \$16,000 of bonds. Address Town Clerk.

Va., Lynchburg.—Common Council is considering \$50,000 appropriation for improving gravity water system; Harry L. Shaner, City Engineer.

WOODWORKING PLANTS

Ala., Gadsden.—Wheel Rims.—Hibble-Barrow Company of Piedmont, Ala., contemplates establishing plant to manufacture rims for buggy and wagon wheels.

Ark., Black Rock—Staves.—Empire Stave Factory, Smithville, Ark., will build stave factory; J. H. Crites will be local manager.

Ark., Wheelley—Spokes.—Wheelley Spoke Co., capitalized at \$10,000, incorporated; Thomas A. White, president; Paul W. A. MacMahon, first vice-president; C. W. Springer, second vice-president; George T. Weis, secretary-treasurer.

Fla., Jacksonville—Staves and Heading.—R. P. Moon, 1018 Atlantic National Bank Bldg., and associates will erect stave and heading mill.

Miss., Greenville—Cooperage.—J. W. Peel, Marysville, Ohio, president of Creston Hoop Co., states, relative to recently-noted incorporation with \$750,000 capital stock of Creston Cooperage Co.: "No information to give out just at present."

Mo., New Madrid—Staves.—H. G. Sharp Stave Co., capital \$10,000, incorporated by Harry G. Sharp, Roy F. Sharp and David G. Sharp.

N. C., Dillsboro—Furniture.—J. J. and T. M. Mason are reported as to establish furniture factory.

N. C., Kinston—Boxes, etc.—Virginia Box & Lumber Co. of Petersburg, Va., contemplates establishing plant at Kinston, Goldsboro or Newbern, N. C.

Va., Mill Dam, P. O. St. Brides, Va.—Flooring, etc.—Mill Dam Lumber Co. is proceeding with construction of plant to manufacture flooring, ceiling, fruit-box shooks, shingles, etc.; machinery practically purchased. (See "Lumber Manufacturing.")

BURNED

Ala., Brilliant.—Brilliant Coal Co.'s boiler and engine room.

Ala., Cullman.—Windsor & Co.'s store.

Ala., Decatur.—Holland Blow Stave Co.'s drykilns.

Ala., Pell City.—A. O. Campbell's residence; loss \$4000.

Ala., Mobile.—Mobile Theater; loss \$300,000.

Ala., Red Bay.—L. F. Gober & Son's mill-ling plant; loss \$17,000.

Ark., Prescott.—Four buildings owned by Brad Scott estate and occupied by Boyd-Buchanan Company, Frank Harper, Albert Porter and W. F. Osborne & Co.; loss \$6000.

Ark., Russellville.—J. G. McFadden's cotton gin; estimated loss, \$4000.

Fla., Zuber.—Sumner Lumber Co.'s drykiln; loss \$5000.

Ga., Ocilla.—Dorminy, McNeese & Co.'s building.

Ga., Seville.—Buildings occupied by Holt & Walton, C. L. Powell and Turner & Dorrough; D. D. Pierce's grist mill; Seville Gin Co.'s warehouse; loss \$25,000.

Ky., Frankfort.—State Journal Printing Co.'s two upper stories of plant; loss \$35,000 to \$40,000.

Ky., Salmon.—Guy Blewett's store, loss \$3500; postoffice.

La., Alexandria.—Bringhurst & Son's sugar mill; loss \$5000 to \$6000.

La., Gueydan.—Residence of J. G. Neelis, vice-president of Bank of Gueydan; loss \$10,000.

La., Jena.—L. E. Jones' store and dwelling; loss \$5000.

La., New Orleans.—Three buildings at 1600, 1602 and 1606 Dryades St., owned by C. L. Keppeler and occupied by Great Atlantic & Pacific Tea Co., Charles Handsom and Mrs. C. Block; loss \$10,000.

La., Winnfield.—C. H. Elliott's buildings, occupied by L. and A. Hotel, Mississippi Cafe, J. A. Graham and others; loss \$8000.

Md., Baltimore.—Hamburger, Wolf & Weiler's underwear factory at Carroll and Bayard Sts. damaged to extent of \$30,000 to buildings and contents.

Md., Lawsonsia.—Frank Sterling's store.

Md., Owings Mills.—James Carpenter's residence; loss about \$8000.

Md., Rocky Ridge.—William Black's store and dwelling; loss \$6000.

Md., Woodstock.—Woodstock College's workmen's building, or Claver Mansion; loss \$5000; Rev. Joseph Hanselman, rector.

Mo., Le's Summit.—J. H. Wood's building destroyed; Lawrence Hardware Co.'s warehouse, A. J. Shearer's building and E. H. Laudemann's livery barn damaged; loss \$10,000.

Mo., Oak Grove.—Oak Grove Bank Bldg. damaged; loss \$6000.

Mo., Steelville.—City jail; loss about \$10,000. Address The Mayor.

N. C., Charlotte.—E. T. Henderson's residence at 405 S. Tryon St.; loss \$10,000.

N. C., Nebo.—J. L. Padgett's residence; loss \$300.

N. C., Snow Hill.—Electric-light plant, flour and corn mill and cotton gin; owned jointly by town and J. F. Davis; loss \$10,000.

Okl., Cameron.—Harbour & Son's store; Cronaster & Carlidges' store; loss \$7000.

Okl., Oklahoma City.—Store of Leon M. Eisman and associates; loss \$50,000.

S. C., Cheraw.—J. W. Cannon's residence at Evans Mill.

S. C., Fort Lawn.—O. A. Jordan & Co.'s store, Witherspoon Mercantile Co.'s warehouse; loss \$22,000.

S. C., Orangeburg.—Claflin University's main building; loss \$75,000 to \$100,000; M. L. Dunton, president.

Tenn., Columbia.—Hutton & Fulton's building; R. C. Church estate's building; Mrs. Vaughan's building.

Tenn., Knoxville.—Dr. R. M. McCown's residence at 120 N. Fourth Ave. damaged; loss \$9000.

Tenn., Pyer.—Jetton & Liles' building, occupied by William Hirsch and others; loss \$8000.

Tex., Blooming Grove.—Pruitt Block, occupied by Barron-Tyler Dry Goods Co., Ingram & Son's Grocery and others; loss \$50,000.

Tex., Cleburne.—Johnson & Simpson's store; building owned by Dr. Cooper of Grandview, Tex.

Tex., Corsicana.—J. C. West's residence; loss \$4575.

Tenn., Milan.—Threadgill & Co.'s building; Pierce & Co.'s building damaged; loss about \$12,000.

Tex., Brownwood.—Walker-Smith Company's candy factory; loss \$50,000.

Tex., Rochelle.—G. W. Jones Mercantile Co.'s store; loss \$16,000.

Tex., Dallas.—Jack Gillespie's two residences in 2900 block McKinnon Ave.; loss \$3000.

Tex., Kenedy.—State Bank of Kenedy's building; loss \$8000.

Tex., Luling.—H. Kleinsmith's residence; loss \$4500.

Tex., Palestine.—Anderson county courthouse; loss \$45,000. Address County Commissioners.

Tex., Foteet.—H. T. Mummie's building; A. Coward's building and Register printing plant; Poteet Drug Co.'s store; Musgrave & Young's building; G. F. Smith's building; postoffice; Poteet Mercantile Co.'s store.

Tex., Swann.—Powell, Smyre & Shuford's store, owned by T. A. Swann.

Tex., Taylor.—A. Alexander states Grace Hotel, recently reported burned, was but slightly damaged, and no new material will be needed.

Tex., Waco.—Dr. O. I. Halbert's residence at 12th and Jefferson Sts.; loss \$20,000.

Tex., Waxahachie.—C. A. Phippen's residence on W. Main St.; loss \$3500.

Va., Max Meadows.—Independent Order of Odd Fellows' hall; W. R. Crockett & Son's store; residence owned by Virginia Iron, Coal & Coke Co. and occupied by C. J. Painter.

W. Va., Logan.—Buskirk Hotel.

W. Va., Hot Springs.—Residence owned by Z. W. Tinker of New Orleans, La., and occupied by Geo. Gunton.

Va., Pocahontas.—Italian Bakery, owned by George W. Mays and Norman Kwass; loss about \$5000.

Va., Richmond.—C. W. Antrim & Sons' building at 1417-25 E. Cary St. damaged.

Va., Springwood.—A. T. Booze's residence.

W. Va., Huntington.—William Linkfield's residence on river bank near 25th St.; building owned by Dr. H. J. Campbell.

BUILDING NEWS

BUILDINGS PROPOSED

APARTMENT-HOUSES

Ala., Birmingham.—M. P. Messer of Messer Real Estate & Insurance Co. will erect three-story apartment-house or store and auditorium at Magnolia Ave. and 23d St.

Ark., Little Rock.—Charles Shoemaker of Shoemaker & Bale purchased site, 46.8x140 feet, at West Markham and Arch Sts.; will erect apartment-house and garage.

Fla., Jacksonville.—L. T. Stephens has plans by W. B. Camp, Jacksonville, for apartment-house; four apartments; gas and electric lighting; asphalt shingle roof; cost \$8000; bids received January 15.

Fla., Miami.—White Palace Hotel Co., George D. Smith, manager, will, it is reported, erect apartment-house on Ocean Beach; 150x175 feet; cost \$100,000.

Fla., Miami.—H. M. Van Court, president

of Miami Gas Co., will erect apartment-house at Avenue B and 10th St.

Ga., Atlanta.—Byron Souder is reported as to erect apartment-house on West Peachtree and Linden Sts.; brick; fireproof; 220 rooms; eight stories; cost \$200,000.

La., New Orleans.—Walter C. Keenan prepared plans for duplex apartment-house in sixth district; two stories; stucco exterior; warm-air heat.

La., New Orleans.—A. Monteleone has plans by Toledano & Wogan, Perrin Bldg., New Orleans, for Monteleone Apartments at St. Mary and St. Charles Aves.; six stories; fireproof; 70x150 feet; 24 apartments; concrete and terra-cotta; two freight and one passenger electric elevators; gas and electric lights; steam heat; reported cost, \$150,000. (Previously noted.)

Md., Baltimore.—Thomas C. Kennedy, 211

N. Calvert St., Baltimore, is reported as preparing plans for six-story apartment-house at Charles St. and Fallsview.

Mo., St. Louis.—Trade Realty & Building Co. will erect two six-family apartment-houses on Plymouth Ave. near Hamilton Ave., and De Tonty St. near Spring Ave.; cost \$22,500 and \$25,000.

Mo., St. Louis.—Joseph C. Lamping will erect apartment-house at Botanical Ave. and Klemm St.; three stories; 12 suites; cost \$35,000; site 90x123 feet.

Mo., St. Louis.—Vincent A. Chiberg purchased site on Waterman Ave. with 37.6 feet frontage, and will erect apartment-house; three apartments of six rooms each, with sun porches; cost \$30,000.

Mo., St. Louis.—J. J. Dowling will erect two-story tenement-house at 2525 Goode St.; cost \$3000.

Tenn., Chattanooga.—R. H. Hunt, Chattanooga, prepared preliminary sketches for bachelor apartment-house adjoining Elks' Home; four or five stories; suites of one or two rooms and bath; cost \$75,000 to \$100,000.

Tex., Galveston.—Mrs. Sallie F. Conklin will erect apartment-house on Broadway between 22d and 23d Sts.; 35 to 40 rooms; brick and steel; three stories.

Va., Richmond.—G. J. Porter will erect tenement-house. (See "Stores.")

ASSOCIATION AND FRATERNAL

Ala., Birmingham.—Knights of Columbus will erect building; cost \$75,000.

Fla., Fort Myers.—Benevolent and Protective Order of Elks, G. B. Reynolds, secretary, 127 Hendry St., has not selected architect to prepare plans for lodge building to be erected on Front St.; 60x70 feet; three stories; fireproof construction; no heating plant; electric lighting; material suitable for roof garden; cost \$15,000 to \$20,000. (Previously noted.)

Fla., St. Petersburg.—Woman's Town Improvement Association will erect building; two stories.

Ga., Augusta.—Aerie No. 1197, Fraternal Order of Eagles, W. S. Moore, secretary, plans to erect building.

Ga., Waycross.—Carpenters' Union will erect building; two stories; brick; 55x95 feet.

La., New Orleans.—Ancient Free and Accepted Masons plan to erect building.

La., New Orleans.—Young Men's Christian Association will expend \$10,000 to rebuild present structure; will remodel third and fourth floors to provide 18 additional rooms in dormitories, shower bath on each floor, etc.

Tex., Waco.—Young Men's Christian Association is having plans prepared by T. Brooks Pearson, Waco, for addition to building.

Va., Danville.—Loyal Order of Moose will erect building at Main and Ridge Sts.

BANK AND OFFICE

Ala., Birmingham.—Yancey Real Estate & Insurance Co. will remodel store and office building. (See "Stores.")

Ark., Viola.—Bank organized with W. H. Rawling, president, plans to erect concrete building.

Fla., Starke.—E. E. Canova and Mrs. B. B. Hopson will erect two buildings; probably for stores and offices.

Ga., Augusta.—Empire Life Insurance Co. has plans by G. Lloyd Preacher, Augusta, for proposed bank and office building; 15 stories; steel frame fireproof construction; brick and terra-cotta; cost \$400,000.

N. C., Charlotte.—Mrs. O. D. King, Albemarle, N. C., opens bids about January 20 for improvements to bank building; 22x52 feet; ordinary construction; steam heat; electric lighting; metal roof; cost \$10,000; plans by Louis H. Asbury, Charlotte. (Previously noted.)

N. C., Durham.—First National Bank will probably erect bank building.

Okla., Konawa.—Oklahoma State Bank will rebuild bank building; fireproof construction; bids opened within 30 days. (Recently reported burned.)

S. C., Spartanburg.—C. Brewster Chapman of New Jersey has plans by Julius Harder, 129 W. 32d St., New York, for office building on Morgan Square; eight stories; 74x90 feet; Italian Gothic design; brick; terra-cotta trimmings; steam heat; electric lights; plate-glass windows; elevators; ceramic tile floors; tile and slag roofing; stores on ground floor; cost \$300,000; bids opened about January 15; architect may be addressed. (Recently noted.)

S. C., Charleston.—Charleston Fidelity Corporation (T. T. Hyde and others) will,

it is reported, erect bank building on King St. opposite Marion Square.

Tex., Marfa.—Business Men's Club will acquire opera-house, erect addition and use for Chamber of Commerce.

Va., Lynchburg.—Lynchburg Trust & Savings Co., James R. Gilliam, president, contemplates, it is reported, erection of bank building.

Va., Richmond.—Cameron Store Co. has plans for office building recently noted (See "Foundry and Machine Shops" and "Machinery Wanted.")

Va., Staunton.—Central Realty Corporation will erect business and office building. (See "Stores.")

W. Va., Bluefield.—Bluefield Water-Works & Improvement Co. will erect three-story office building at Summers St. and Princeton Ave. to replace burned structure.

W. Va., Warwood.—Bank of Warwood will erect bank building at 17th and Main sts.

W. Va., Wheeling.—People's Bank contemplates erecting bank building; plans not definite; George W. Eckhart, cashier.

CHURCHES

Ala., Northport.—Methodist Church will erect edifice; brick; main auditorium to seat 410. Address The Pastor, Methodist Church.

Ark., Pine Bluff.—St. Joseph's Catholic Church plans to erect edifice; cost \$50,000. Address Rev. Father Ignatius.

Fla., Gulfport.—Southern Methodist Church will erect edifice; cost several thousand dollars. Address The Pastor, Southern Methodist Church.

Ga., Eastman.—Baptist church will erect edifice; cost \$20,000; Rev. Alex. W. Bealer, pastor.

Ga., Vineville.—Vineville Baptist Church has tentative plans to enlarge edifice. Address The Pastor, Vineville Baptist Church.

Ky., Louisville.—Broadway Baptist Church will erect Sunday-school building; cost \$50,000. Address The Pastor, Broadway Baptist Church.

La., Gretna.—Salem Lutheran Church will erect edifice; cost \$4500. Address The Pastor, Salem Lutheran Church.

Md., Baltimore.—St. Paul's Methodist Protestant Church, Monument and Patuxent Sts., Rev. James A. Dudley, pastor, will erect edifice to replace present structure; brick construction.

Md., Frederick.—Trinity Methodist Episcopal Church South, Rev. J. R. Ringer, pastor, will improve edifice.

Md., Texas.—Methodist Protestant Church will receive bids until February 1 to erect edifice. Address The Pastor, Methodist Protestant Church.

Miss., Jackson.—First Methodist Church Building Committee will receive bids until February 3 to erect edifice; brick; terra-cotta trimmings; tile roof; cost \$65,000; plans by R. H. Hunt, Chattanooga, Tenn. (Previously noted.)

Mo., St. Louis.—Third Baptist Church, Rev. W. J. Williamson, pastor, will erect educational building, to include rooms for Sunday-school work, social service, industrial training, etc.; cost \$100,000.

N. C., Carthage.—Presbyterian Church, Rev. J. K. Roberts, pastor, will erect edifice.

N. C., Wake Forest.—Wake Forest College will erect church building. (See "Schools.")

Okla., Muskogee.—Congregational Church will erect edifice. Address The Pastor, Congregational Church.

S. C., Chester.—Purity Presbyterian Church contemplates erecting annex to cost \$15,000 or new edifice to cost \$40,000 to \$50,000. Address The Pastor, Purity Presbyterian Church.

Tenn., Jackson.—Seventh Day Adventists, Rev. Mr. Lowry, pastor, 218 Morgan St., will erect edifice.

Tenn., Trezevant.—Baptist Church will erect edifice; cost \$6000 to \$8000. Address The Pastor, Baptist Church.

Tex., Houston.—Baptist Church, Rev. H. E. Davis, pastor, will erect edifice at 25th and Cambridge Sts., Sunset Heights.

Tex., San Antonio.—Trustees of Tabernacle Methodist Episcopal Church will erect edifice; W. N. Hagy, 505 Frost Bldg., may be addressed.

Va., Newport News.—Grace Methodist Church will erect six-room addition to Sunday-school; J. H. Christie, H. D. Branning, H. C. Collins and others, building committee.

Va., Petersburg.—Orthodox Jewish congre-

gation will erect synagogue on North Market St.; cost \$10,000. Address The Rabbi, Orthodox Jewish Congregation.

Va., Scottsville.—Calvary Baptist Church will erect edifice at Glasgow St. and Ninth Ave. Address The Pastor, Calvary Baptist Church.

Va., Suffolk.—Main St. Methodist Episcopal Church plans to erect edifice to cost \$40,000; James L. McLemore, H. A. Campbell and A. V. Sturgeon, committee.

W. Va., Bluefield.—Trustees of Scott Street Baptist Church, Rev. S. R. Bullock, pastor, 421 Scott St., will erect to replace burned structure; 42x75 feet; stone and brick; steam heat; gas and electric lighting; slate roof; cost \$6000; architect not selected. (Recently noted.)

CITY AND COUNTY

Ala., Birmingham.—Hospital.—Jefferson County Commissioners are having plans prepared by H. B. Wheelock, Birmingham, for extensions to Hillman Hospital. (Previously noted.)

Ala., Jasper.—Jail and Fire Department.—Walker County Commissioners plan to erect jail; city plans to erect building for fire department. Address The Mayor.

Ala., Lafayette.—Jail.—Chambers county will improve jail. Address Judge of Probate Court.

Ark., Helena.—Jail, etc.—Phillips county contemplates erecting jail, etc.; E. Molitor, county judge. (See "Courthouses.")

Fla., Tampa.—Hospital and Jail.—Hillsborough County Commissioners will erect 16-room annex on county poor farm for hospital; will also repair county jail and probably provide stronger cells.

Ga., Waycross.—Magazine.—City will receive bids until January 21 to erect reinforced explosive magazine. Address The Mayor.

Ky., Danville.—Workhouse and Fire Department.—City and Boyle county will erect workhouse; city voted \$10,000 bond issue and county will furnish \$10,000; will also erect fire-department building. Address The Mayor and County Commissioners. (Previously noted.)

Ky., Louisville.—Library.—Special Library Committee plans to erect Easter colored branch library; W. O. Head, Mayor.

Ky., McKee.—Jail.—Jackson county, J. W. Mullins, judge, opens bids March 18 to erect jail; 33x39 feet; brick; steam heat; galvanized metal roofing; cost \$13,000; plans by Pauley Jail Building Co., St. Louis, Mo.; contract to be let as whole. (Previously noted.)

La., New Orleans.—Warehouses, etc.—Board of Port Commissioners plans to expend \$100,000 to convert Valencia shed into cotton warehouse. (See "Warehouses.")

La., New Orleans.—Fire House and Police Station.—City is planning to erect fire house and police station; will also receive bids until January 23 to erect central fire station on Decatur St.; 181x55 feet; two stories; brick and reinforced concrete; pile foundation; terra-cotta trimmings; metal doors; steam heat; marble and tile partitions; composition roof; tower. Address The Mayor. (Previously noted.)

La., White Castle.—Jail.—City will erect city jail. Address The Mayor.

Miss., Charleston.—Jail.—Tallahatchie County Supervisors will erect jail; probable cost \$10,000.

Mo., Joplin.—Market.—City will vote January 21 on \$90,000 bond issue to purchase site and erect market-house. Address The Mayor.

Md., Cumberland.—Hospital.—Allegany County Commissioners are considering erection of two three and four-story extensions for male and female patients at Sylvan Retreat, to increase capacity from 100 to 300 patients, and converting into State hospital for Western Maryland counties; cost \$10,000 to \$15,000; is considering tentative plans by Wright Butler, Cumberland; Dr. Arthur P. Herring, secretary of State Lunacy Commission, 406-408 Professional Bldg., Baltimore, Md.

Mo., Kansas City.—Hospital, Workhouses, etc.—City defeated \$150,000 bond issue to purchase land and improve workhouses and house of correction and voted \$100,000 bond issue to construct, equip, improve and enlarge tuberculosis hospital; Henry L. Jost, Mayor. (See "Miscellaneous Construction.")

N. C., Barium Springs.—County Home.—Fredell County Commissioners, Statesville, N. C., will have plans prepared by Wheeler & Stern, Charlotte, N. C., for county home; several buildings equipped with water and lights; central heating plant; cost \$25,000.

N. C., Greensboro.—Opera-house.—Hook & Rogers, Charlotte, N. C., submitted plans

to City Commissioners to remodel portion of city hall for opera-house; stage 50x38 feet; foyer 11 feet; bowl shape floor; fireproof; steel girder to extend to roof and firewall above; seating capacity 1240. (Previously noted.)

Tenn., Chattanooga.—Orphanage.—Hamilton County Court appropriated \$5000 to purchase site for proposed colored orphanage.

Tenn., Knoxville.—Exposition.—Knox County Commissioners will issue \$12,500 of bonds to erect East Tennessee building at National Conservation Exposition.

Tex., Dallas.—Jail.—Dallas County Commissioners will erect jail; cost \$150,000.

Va., Bristol.—Jail.—City will erect jail at Water and Sycamore Sts. Address The Mayor.

Va., Christiansburg.—Jail.—Montgomery county will vote January 30 on \$15,000 bond issue to erect jail; fireproof; electric lights; slate roof; plans by G. R. Ragan, Salem, Va. (Previously noted.)

Va., Dinwiddie.—Jail.—Proposals received at office of architect, Richard A. Munden, 10-11 Virginia National Bank Bldg., Petersburg, Va., until January 24, and opened in courthouse at Dinwiddie January 25, 1 P. M., to erect one-story brick jail building, 35 feet 6 inches by 53 feet 8 inches (including cell work, plumbing and heating); certified check for \$300; drawings can be seen at architect's office.

Va., Staunton.—Jail.—City and Augusta county are reported as to improve jail. Address Mayor Wayt and County Commissioners.

COURTHOUSES

Ala., Birmingham.—Jefferson County Commissioners will receive bids until February 1 to erect addition to courthouse to cost about \$50,000 and improve present structure at cost of about \$10,000; are having plans prepared by H. B. Wheelock, Birmingham.

Ark., Helena.—Phillips county contemplates erecting courthouse and jail next summer; E. P. Molitor, county judge. (Recently noted.)

Miss., Meadville.—Franklin County Supervisors ordered election February 14 to vote on bond issue to erect courthouse; A. R. Moore, chancery clerk. (Recently noted.)

Tex., Palestine.—Anderson County Commissioners will probably rebuild courthouse reported burned at loss of \$45,000.

DWELLINGS

Ala., Birmingham.—Pierce Foshee Company will erect three two-story frame residences on 12th St. between 16th and 17th Sts.; cost \$3000 each.

Ala., Birmingham.—St. Paul's parish, Rev. Father Coyle, pastor, is reported as to erect rectory, etc. (See "Schools.")

Ala., Birmingham.—O. E. Wood will erect five one-story dwellings on 11th St.; cost \$8000.

Ala., Faunsdale.—George Pegram will rebuild dwelling; six rooms, bathroom, kitchen, etc.; ordinary construction; grates; acetylene lighting; shingle roof; cost \$5000; architect not selected. (Recently noted burned.)

Ala., Tuscaloosa.—Mr. J. C. Maxwell will erect bungalow on 10th St.

Ark., Little Rock.—Bracy, Beauchamp & Nieneyer Realty Co. will erect seven bungalows on 4th St. between Booker and Johnson Sts.

D. C., Washington.—William D. Terrell and Charles E. Wire, 1413 H St. N. W., purchased property at southwest corner of Lanier Pl. and Ontario Rd. N. W., and will erect dwelling of 12 rooms and two baths and five nine-room dwellings; cost \$32,000.

D. C., Washington.—W. C. Blundon, 15 Rhode Island Ave. N. W., will erect two two-story brick dwellings at 1230 and 1232 Fairmont St. N. W.; cost \$10,000.

D. C., Washington.—George Koehler, 1511 Oak St. N. W., will erect three two-story brick dwellings at 1438 to 1442 Oak St.; cost \$9000.

D. C., Washington.—Charles W. King, Jr., 920 New York Ave. N. W., will erect six two-story brick dwellings at 2438 to 2448 20th St. N. W.; cost \$20,000.

Fla., Jacksonville.—Thomas Carr will erect two two-story frame dwellings on 5th St. between Liberty and Walnut Sts.; cost \$6000.

Fla., Jacksonville.—Julia E. Smith will erect two-story frame dwelling on Palmetto St. between Ashley and Beaver Sts.; cost \$2300.

Fla., Palatka.—H. A. Davis will, it is reported, erect cottage.

Ga., Atlanta.—M. L. Hirsch will erect two-

story frame dwelling on W. Peachtree St.; cost \$4000.

Ga., Atlanta.—E. R. Schueler will erect two-story frame dwelling at 47 Inman Circle; cost \$6000.

Ga., Atlanta.—W. B. Disbro, 705 Empire Bldg., will erect two one-story frame dwellings; cost \$2000 each.

Ga., Atlanta.—Phenix Investment Co., Fourth National Bank Bldg., will erect one-story frame dwelling; cost \$2700.

Ga., Atlanta.—McKenzie Trust Co. will erect two-story brick dwelling at 227 E. 4th St.; cost \$3700.

Ga., Savannah.—Mary E. Butler will erect residence on 424 St.

La., Consho.—E. C. Rhodes will erect residence to replace burned structure. (Recently reported burned.)

La., New Orleans.—Southern Realty Co. will erect two-story frame dwelling; cost \$5500.

La., New Orleans.—L. D. Sokolsky will erect four double cottages to cost \$3600.

Maryland.—Charles H. Helntzman, 922 S. Charles St., awarded contract to Robert Gray to erect two five-room bungalows on Rock Creek at Cottage Grove Farm.

Md., Baltimore.—Provident Realty Corporation, Garrison and Piedmont Aves., has plans by Henry J. Tinley, 312 N. Charles St., Baltimore, for three dwellings on west side of Elsinor Ave. north of Beech Ave., two and a half stories; frame; 28x30 feet; steam heat; cost \$2500; Roslyn & Duvall Aves., two stories; frame; 26x32.6 feet; steam heat; cost \$4000; Garrison and Duvall Aves., two and a half stories; 30x29 feet; frame; steam heat; slate roof; cost \$4500.

Md., Baltimore.—Murray & Haines, 1709 N. Ellamont St., have plans by M. H. Murray, 1709 N. Ellamont St., Baltimore, for two and a half-story dwelling on south side of Duvall Ave. east of Garrison Ave. and one-and-a-half-story cottage on west side of Allendale St. north of Duvall Ave.; former 27x31 feet, frame, hot-water heat, cost \$3000; latter 30x30 feet, hot-water heat, cost \$3000.

Md., Baltimore.—Charles B. Burdette, 226 N. Fulton Ave., will erect seven dwellings at 2129 to 2141 N. Smallwood St.; two stories; iron-spot brick; 15x45 feet; cost \$15,000; plans by C. R. Burdette, 226 N. Fulton Ave., Baltimore.

Md., Baltimore.—Forest Park Co., Maryland Telephone Bldg., will have plans prepared by Henry J. Tinley, 312 N. Charles St., Baltimore, for cottage on Hawthorn Rd. near Garrison Ave.; two and a half stories; frame; 27x31 feet; cost \$4500; construction by company.

Md., Baltimore.—Ephraim Macht, 11-13 E. Fayette St., will erect four cottages at Montebello Park; two and a half stories; brick and stucco; cost \$25,000.

Md., Baltimore.—Walter L. Westphal, 1709 N. Bond St., has plans by Samuel A. Bersterman, 36 N. Potomac St., Baltimore, for 24 dwellings at 2101 to 2147 W. Saratoga St.; two stories; iron-spot brick; hot-air heat; 12.9x47 feet; cost \$28,000.

Md., Roland Park.—Howell H. Thomas, Charles and 33d Sts., Baltimore, Md., is having plans prepared by Wyatt & Nolting, Keyser Bldg., Baltimore, for dwelling on Overhill Rd.; two-and-a-half stories; 44x32 feet; tile floors; steam heat; cost \$15,000.

Mo., Butler.—C. A. Allen will rebuild residence; 30x54 feet; ordinary construction; hot-air furnace; electric lighting; shingle roof; cost \$2000; architect not selected. (Recently reported burned.)

Mo., Kansas City.—W. H. Collins will erect three frame dwellings at 3822-24-26 Montgall St.; cost \$1500 each.

Mo., Kansas City.—W. D. Frace will erect two stucco dwellings at 4103 and 4107 Virginia St.; cost \$2300 each.

Mo., St. Louis.—F. C. Mueller will erect three two-story dwellings at 2514-24 Minnesota St.; cost \$10,500.

N. C., Pittsboro.—Presbyterian Church will erect manse. Address The Pastor, Presbyterian Church.

N. C., Salisbury.—D. C. Lingle will erect four cottages near Chestnut Hill.

S. C., Anderson.—B. B. Gossett, president of Riverside and Toxaway Mills, will erect residence.

S. C., Barnwell.—Elizabeth D. Rhodes, 402 Green St., Augusta, Ga., contemplates erecting three dwellings; five rooms each; ordinary construction; tin or shingle roof; cost \$800 to \$1000 each.

Tenn., Knoxville.—Fifth Presbyterian Church, Rev. R. L. Houston, pastor, will erect manse on Linden Ave.

Tenn., Knoxville.—Dr. R. M. McCown will

probably rebuild residence reported burned; loss about \$9000.

Tex., Austin.—E. H. Perry will erect residence at Lavaca and 10th Sts.; two stories; brick veneer; cost \$15,000.

Tex., Bay City.—Catholic Church, Rev. Father Montreuil, pastor, will erect rectory.

Tex., El Paso.—J. A. Wright will erect residence on Federal St. in Manhattan Heights Addition.

Tex., El Paso.—Fred C. Jones of El Paso Milling Co. is having plans prepared by O. H. Thorman & Co. for six-room bungalow in Grand View Addition; cost \$4000.

Tex., Hearne.—J. T. Welch will erect two-story residence.

Tex., Houston.—W. M. Abbey will probably erect dwelling in Montrose; plans not definite.

Tex., Houston.—John H. Kirby will erect residence in Montrose; fireproof.

Tex., Houston.—B. F. Bonner will erect residence on Montrose Blvd.

Tex., Houston.—M. L. Grymes will erect residence in Montrose.

Tex., Houston.—J. W. Sanders is having plans prepared by Sanguinetti, Staats & Barnes, Houston, for residence at Lovett and Yoakum Bldgs.

Tex., Houston.—Mrs. Lizzie L. Corley will erect residence on Avondale Ave.

Tex., Marlin.—Phil Arrington will erect cottage.

Tex., San Antonio.—Mrs. C. F. Cook will erect dwelling on Goliad St.; eight rooms; cost \$3000.

Va., Lexington.—Lexington Presbyterian Church will erect manse. Address The Pastor, Presbyterian Church.

Va., Newport News.—Charles M. Robinson, Richmond, Va., will erect bungalow.

Va., Richmond.—W. H. Crawford will erect three brick dwellings on Grove Ave. between Sheppard and West Sts.; cost \$5000.

Va., Richmond.—Mrs. R. C. Broadus will erect residence at 15th and Porter Sts.

Va., Richmond.—Clarence Cosby contemplates erecting residence; cost \$12,000. (See "Machinery Wanted.")

Va., Roanoke.—Mrs. F. O. Webber is having plans prepared by G. R. Ragan, Roanoke, for dwelling; 42x44 feet; fireproof construction; hot-water heat; electric lighting; natco tile roof covered with slate; exterior walls of natco tile with pressed-brick veneer.

Va., Roanoke.—Fidelity Realty Corporation will erect four two-story frame dwellings on 6th St.; cost \$6700.

W. Va., Martinsburg.—W. S. Brindle will erect two brick dwellings on Winchester Pike.

GOVERNMENT AND STATE

Ky., Louisville.—Residence.—Commissioner of Fisheries, Department of Commerce and Labor, Washington, D. C., opened bids to erect residence for superintendent of fisheries; George D. Smith, Builders' Exchange, Louisville, is lowest bidder at \$6200. (Recently noted.)

Md., Annapolis.—Armory.—City Armory and Convention Hall Commission for State of Maryland opened bids to erect armory and convention hall; D. M. Andrew Company, Mt. Vernon Ave. and 26th St., Baltimore, Md., is lowest bidder at \$43,485; plans by Baldwin & Pennington, Professional Bldg., Baltimore, Md., call for structure 105x86 feet; ordinary wood construction; steam heat; electric lights; slag roof. (Recently noted under "City and County.")

Md., Cumberland.—Hospital.—Allegany County Commissioners are considering erection of extension of Sylvan Retreat and converting into State hospital. (See "City and County.")

Tex., Clarksville.—Postoffice.—Treasury Department, Oscar Wenderoth, supervising architect, Washington, D. C., opened bids to erect postoffice; Newport Construction & Engineering Co., Newport News, Va., is lowest bidder for limestone construction at \$40,324, and Mississippi Valley Construction Co., St. Louis, Mo., for sandstone construction at \$49,624.

Tex., Paris.—Postoffice.—Treasury Department, Oscar Wenderoth, supervising architect, Washington, D. C., opened bids to erect annex to postoffice; Mailey-Marsh Company, Minneapolis, Minn., is lowest bidder at \$94,277 for limestone construction, and Newport Contracting & Engineering Co., Newport News, Va., is lowest bidder at \$99,645 for sandstone construction. (Previously noted.)

Va., Fort Monroe.—Hospital.—H. L. Pettus, Major, Quartermaster Corps, U. S. A., constructing Quartermaster, will receive bids

until February 10 for alteration to Post Hospital; plans and specifications on deposit of \$10.

HOTELS

Ala., Tuscaloosa.—McLester Hotel, Henry A. Snow, proprietor, will, it is reported, expend \$10,000 for improvements to hotel to include erection of fourth story to provide 15 additional rooms; private baths, etc.; hot and cold running water in rooms; steam heat.

Fla., Miami.—F. W. Goakes, Cleveland, O., and associates leased property at 12th St. and Ave. C and will, it is reported, erect six-story hotel.

Fla., Miami.—William Hurd, Hookston, N. H., is reported as to erect hotel; three to five stories; about 150 rooms.

Fla., St. Petersburg.—Bonfoey & Elliott, Tampa, Fla., are preparing plans for hotel at Fifth and Sixth Aves. of bay division; architects wire Manufacturers Record: "Tourist hotel; seven stories and basement; concrete construction; 400 rooms; 300 baths; fireproof; 208x338 feet; steam heat; electric lighting; electric elevators; cost \$350,000; date of opening bids not set; ready for occupancy in December; H. M. Stanford, manager." Also reported as to provide dock and small yacht basin in front of hotel and to erect ballroom and amusement pavilion on end of pier. Address architects.

Fla., Tarpon Springs.—Mrs. J. Marie Draughton is having clubhouse at Fivay dismantled and will rebuild as hotel; 35 rooms; three stories; J. A. Kyle of Port Richey, Tex., is superintending work.

Fla., Tavares.—Tavares Hotel Co., it is reported, will erect \$100,000 hotel.

Ga., Columbus.—Columbus Roberts, proprietor of Coca-Cola Bottling Co., will, it is reported, erect hotel, using present Coca-Cola building as foundation; 65 rooms; cost \$15,000 to \$20,000.

La., Waterproof.—R. C. Lancaster will erect additional story to restaurant building and convert into hotel; 30x80 feet; 12 rooms with 6-foot hall and 10-foot front gallery; opens bids at once.

Md., Annapolis.—Log Cabin Inn Co., William Tighman Emory, R. F. No. 1, Annapolis, will erect summer hotel; 280 feet long; to accommodate 60 guests; ordinary construction; solid logs; electric lighting; shingle roof; cost \$8000; day labor. (Company recently noted incorporated with \$8000 capital stock.)

Miss., Tutwiler.—Judge John T. Nickle is reported as interested in erection of hotel; brick.

Mo., St. Louis.—George Allan will, it is reported, erect hotel at 12th and Olive Sts.; 18 stories; 100x125 feet; estimated cost, \$1,000,000; plans by William B. Ittner, St. Louis. Architect wires Manufacturers Record: "No details to give out; proposition just being financed."

N. C., Asheville.—J. H. Jenkins will erect store and hotel building. (See "Stores.")

N. C., Asheville.—E. W. Grove of Paris Medicine Co., St. Louis, Mo., has begun construction of new portion of Grove Park Inn; one building three stories; 60x40 feet; connected with north wing of main structure by covered passageway; kitchen on third floor, with passageway leading to dining-room seating 400 guests; bake and butcher shops on second floor; power plant and machinery on first floor; another building for help will be 80x100 feet; two and a half stories; rough stone; Oscar Mills, superintendent of construction, Atlanta, Ga. (Details of main structure previously noted.)

Tex., Fort Worth.—T. M. Thannisch will erect store and hotel building. (See "Stores.")

Tex., Sinton.—H. Katz will erect hotel on Kohler Ave.; two stories; fireproof brick and tiling; 40 rooms.

Tex., Yoakum.—J. M. Haller will erect five-story hotel at May and Front Sts.

Tex., Waco.—W. R. Omar opens bids about May 1 to erect hotel for negroes; three stories; 50 rooms; fireproof construction; steam heat; electric lighting; asbestos roof; cost \$22,000; plans by owner. (Recently noted.)

Tex., Waco.—J. W. Riggins has plans by Lang & Witcheil, Dallas, for hotel at Austin and 8th Sts. according to agreement with Waco Business Men's Club and Young Men's Business League; reinforced concrete skeleton frame with outside walls of brick and terra-cotta; fireproof inside partitions; 10 stories and basement; finished with faced brick; terra-cotta or stone trimmings; heating plant, storage rooms, etc., in basement; convention hall; elevators; telephone system; 208 bedrooms, half of which will be

equipped with private baths; 80x100 feet; cost about \$400,000. (Previously noted.)

MISCELLANEOUS

Ala., Birmingham.—Auditorium.—M. P. Messer will erect store and auditorium or apartment building. (See "Apartment-Houses.")

Ala., Mobile.—Home.—Council of Episcopal Church of Alabama plans to raise fund of 50,000 to erect buildings at Church Home for Orphans; D. N. Drennen, Robert Jemison, both of Birmingham, Ala.; John E. Mitchell, Mobile, and others, committee.

Fla., Miami.—Clubhouse.—Woman's Club opened bids to erect clubhouse and public library at Ave. B and 12th St.; St. John Construction Co. is lowest bidder at \$3000; 30x125 feet; concrete walls. (Previously noted.)

Ga., Tybee.—Bathhouses, Pavilion.—Frank Durden and Tom Powers will, it is reported, erect several hundred bathhouses and pavilion.

Ga., Waycross.—Clubhouse.—Waycross Country Club, R. R. Izlar, president, plans to erect clubhouse.

Ky., Louisville.—Home.—Trustees of Parr's Rest, 978 S. 3d St., plan to erect home to cost \$100,000.

Mo., St. Louis.—Nursery.—St. Patrick's parish, Father Dempsey, manager, will erect two-story building at 1215 N. 6th St.; cost \$7500.

N. C., Barium Springs.—Orphanage.—Barium Springs Orphanage plans to expend \$50,000 for improvements; Rev. R. Murphy Williams, Greensboro, N. C., in charge of campaign to raise necessary funds. For further information address Rev. W. F. Walker.

N. C., Charlotte.—Hospital.—Drs. J. P. Munroe, A. J. Crowell, C. M. Strong and others are promoting erection of charity hospital.

N. C., Durham.—Auditorium.—R. H. Wright will erect six buildings with auditorium on second floor. (See "Stores.")

N. C., Raleigh.—Fair.—State Fair of North Carolina, Jos. E. Pogue, secretary, will, it is reported, erect stock barn and stalls and machinery hall at State Fair Grounds.

N. C., Wilmington.—Pavilion.—Tidewater Power Co., A. B. Skelding, general manager, is having plans prepared by H. E. Bonitz, Wilmington, for enlargement of pavilion at Lumina, Wrightsville Beach; 300x600 feet; seating capacity 2000; day labor. (Recently noted.)

Tex., Austin.—Sheds.—Hillyer-Deutsch Lumber Co. will erect sheds on E. 5th St.; cost \$4000.

Tex., Fort Worth.—Clubhouse.—Fort Worth Club, W. B. Paddock, president, and Mercantile Club are reported as to erect joint clubhouse at 6th and Main Sts.

Tex., Fort Worth.—Hospital.—All Saints' Hospital is reported as to erect hospital building at 8th and Magnolia Aves.; about 30 rooms; three stories; probable cost \$30,000.

W. Va., Shinnston.—Hospital.—Dr. M. F. Matheny, Meadowbrook, W. Va., is interested in company to erect hospital.

RAILWAY STATIONS, SHEDS, ETC.

Ky., Jenkins.—Sandy Valley & Elkhorn Railway Co. has plans by M. A. Long, architect Baltimore & Ohio Railroad, Central Bldg., Baltimore, Md., for passenger station and office building and freighthouse, 16x40 feet; mill construction; cost \$12,000.

N. C., Asheville.—Southern Railway Co., R. Herman, chief engineer, 1300 Pennsylvania Ave. N. W., Washington, D. C., it is reported, will improve passenger station, to include erection of dining-room, converting present dining-room into colored waiting-room, etc.; cost \$10,000. (Improvements to freight station previously noted.)

Tenn., Gallatin.—Nashville & Gallatin Interurban Railroad will, it is reported, erect passenger and freight station on West Main St.

Texas.—Missouri, Kansas & Texas Railway Co., A. M. Acheson, chief engineer, Dallas, Tex., will expend \$200,000 to improve, refurnish and equip stations, depots and section-houses and reconstruct present structures along railroad. (See "Railway Shops, Roundhouses, Terminals, etc.")

Tex., Giddings.—Houston & Texas Central Railroad, W. G. Van Vleet, general manager, Houston, Tex., will, it is reported, erect passenger depot.

Tex., Houston.—Missouri, Kansas & Texas Railway, S. B. Fisher, chief engineer, St. Louis, has plans for passenger station; main

building two stories; 40x100 feet; east wing 40x58 feet; west wing 32x60 feet; structural steel frame; faced brick walls; stone trimmings; terra-cotta trimmings; reinforced concrete columns; tower clock; cost \$125,000. (Previously noted.)

Va., Waverly.—Norfolk & Western Railway, C. S. Churchill, chief engineer, Roanoke, Va., will erect station.

SCHOOLS

Ala., Birmingham.—St. Paul's parish, Rev. Father Coyle, pastor, is reported as to erect \$100,000 high school, parochial school and rectory; total cost \$200,000; A. O. Von Herbulis, architect, Washington, D. C.

Ala., New Lexington.—Tuscaloosa County Commissioners, Tuscaloosa, Ala., will erect high school; H. J. Williamson, State Superintendent of Education.

Ark., Searcy.—Galloway College, Rev. W. C. Watson, commissioner of education, plans to expend \$50,000 to enlarge college.

Fla., St. Petersburg.—Pinellas County School Board will erect school for negroes at 3d St. and Tenth Ave. South.

Fla., Starke.—Bradford County Board of Public Instruction plans to erect school.

Ga., Atlanta.—Finance committee of Board of Education plans to erect building for commercial branch of girls' high school.

Ga., Macon.—Board of Education will soon receive bids to erect school; architects who desire to draw plans are requested to communicate with C. H. Bruce, superintendent of schools, or T. D. Tinsley, chairman of Board of Education.

Ky., Danville.—Central University will erect \$30,000 Carnegie Library.

La., Homer.—City will vote on tax to erect brick school. Address The Mayor.

Md., Catonsville.—St. Charles College Trustees will erect chapel as one of group of college structures; have \$40,000 for this purpose. (Other improvements previously noted.)

Md., Frederick.—Board of County Commissioners rescinded contract of Martin C. Kemp to erect high school, and will advertise for new bids. (Recently noted.)

Md., Woodstock.—Woodstock College, Rev. Joseph Hanselman, rector, will rebuild Claver Mansion, reported burned at loss of \$500.

Mo., University, Station St. Louis.—Board of Education of University City will receive bids on forms furnished by board until January 23 to erect grammar school as follows: (1) general work; (2) plumbing and sewerage; (3) heating and ventilating; (4) electric work; bids to be accompanied by deposits, cash or cashier's check, payable to board, for \$700, \$300, \$300 and \$100, respectively; plans and specifications at office of William B. Ittner, architect, 408 Board of Education Bldg., St. Louis, Mo., or may be had on deposit of \$10, or specifications only may be had on deposit of \$5.

Miss., Hattiesburg.—Trustees of Baptist Mississippi Woman's College plan to enlarge and equip college buildings.

N. C., Black Mountain.—Blue Ridge Association, C. H. Hobbs, chairman, Waynesville, N. C., secured \$30,000 of bonds to improve and rebuild recently-burned structures.

N. C., Huntersville.—Town is considering election to vote on \$20,000 bond issue to erect brick school. Address School Committee.

N. C., Wake Forest.—Wake Forest College plans to erect church building to contain Sunday-school rooms, etc.; seating capacity 1200; cost \$40,000.

Okl., Tulsa.—O. H. P. McDowell, secretary Board of Education, will receive bids until January 20 to erect three units and auditorium, block 7, North Tulsa addition; certified check for \$2500; plans and specifications at office of Winkler & McDonald, architects, Tulsa. (Recently noted.)

S. C., Orangeburg.—Claflin University, M. L. Dunton, president, will rebuild main building reported burned at loss of \$75,000 to \$100,000.

Tenn., Chattanooga.—Hamilton county will ask Legislature for permission to issue \$500,000 of bonds to erect county schools, pay indebtedness, etc.; W. S. Beck, member of school board, is having plans prepared by Adams & Alsop and Huntington & Sears, Chattanooga, for 22 schools of various sizes; larger ones to be of brick; smaller ones, stucco and brick; cost \$2000 to \$22,000.

Tenn., Chattanooga.—City purchased site on Chattanooga Ave. between Cowart and Williams Sts., and will erect school for negroes. Address The Mayor.

Tenn., Knoxville.—City purchased site at Luttrell St. and Glenwood Ave., and will

erect school; W. E. Miller, school superintendent.

Tenn., New Market.—Jefferson County Court levied tax to erect high school. Geo. W. Long, chairman of County Court, Dandridge, Tenn.

Tex., Athens.—City will probably issue \$40,000 of bonds to erect high school; face brick. Address The Mayor.

Tex., Austin.—Tillotson Institute will erect administration building; several stories; concrete basement; cost \$15,000.

Tex., Denison.—School Board is considering plans by A. O. Watson, Austin, Tex., for high school to cost about \$100,000. (Recently noted.)

Tex., Dublin.—School Trustees open bids January 27 to erect three-story 74 feet 8 inches by 125 feet 3 inches school building and remodel old building; ordinary stone wall; steel ceiling and plaster walls; tar and gravel and metal roofs; plans by M. L. Waller, 209½ W. 8th St., Fort Worth, Tex. (Recently noted.)

Tex., San Angelo.—St. Joseph's College and Academy will rebuild structure. (Recently reported burned.)

Tex., Smiley.—Smiley Independent school district voted \$10,000 bond issue to erect school. Address District School Trustees.

STORES

Ala., Birmingham.—M. P. Messer of Messer Real Estate & Insurance Co. will erect store and auditorium or apartment building. (See "Apartment-Houses.")

Ala., Birmingham.—H. C. Abbott will erect two-story brick business building on 20th St. between Aves. C and D; cost \$9000.

Ala., Birmingham.—A. R. Dearbourne will erect five two-story frame buildings at Sixteenth Ave. and 18th St.; cost \$7500.

Ala., Birmingham.—Yancey Real Estate & Insurance Co. will expend \$3800 to remodel store and office building at Second Ave. and 25th St.

Ala., Birmingham.—Frank Nelson, Jr., is reported as to erect \$50,000 store, to be occupied by F. W. Woolworth Company, New York.

Ala., Birmingham.—S. D. Weakly will erect two two-story buildings at South 20th St. and Avenue I; cost \$3600.

Ala., Birmingham.—Southern Development Co. will erect two two-story frame buildings at Glen and Whitcomb Sts.; cost \$11,000.

Ala., Mobile.—Yeend Potter Co. leased Cawthon Bldg. and will remodel; expenditure \$49,000.

Ala., Mobile.—Futton Bros. will remodel and enlarge store building at Royal and Francis Sts.

Ala., Tuscaloosa.—Brown Bros. purchased property at Broad St. and Greensboro Ave., and contemplate it is reported, remodeling store or erecting of new building.

Ark., Hoxie.—Spinner Weber Company, Pocahontas, Ark., will probably receive contract to rebuild store occupied by Patrick Whalen; 50x90 feet; brick and wood; electric lighting; composition roof; cost \$6500; will install small elevator, motor and pump and small water tank. (Recently reported burned.)

Ark., Little Rock.—Henry Leigh & Co. are having plans prepared for store building at Markham and Ferry Sts.; three stories and basement; brick.

Ark., Pine Bluff.—E. A. Schriker will erect two-story store building; cost \$40,000.

Fla., Jacksonville.—Ames Realty Co. will erect one-story brick building on Adams St. and Myrtle Ave.; cost \$3500.

Fla., Jacksonville.—Main Street Co. will erect building to be occupied by Knight Furniture & Crockery Co. at Laura and Duval Sts.; three stories; 105 square feet floor space; steel and other fireproof construction; plate-glass fronts on two lower floors.

Fla., Jacksonville.—E. E. Willard will erect one-story brick building on Park St. between Prince and Forest Sts.; cost \$4000.

Fla., Jacksonville.—Clarence Ellis will erect two-story brick building at Riverside Ave. and Jackson St.; cost \$12,000.

Fla., Starke.—E. E. Canova and Mrs. B. B. Hopson will erect two business buildings; lower floors probably for stores and upper floors for offices.

Ga., Athens.—Allen Talmadge will erect business building.

Ga., Athens.—Blanton E. Fortson will erect business building.

Ga., Seville.—Holt & Walton will rebuild store reported burned.

Ga., Washington.—R. A. Almand will erect two-story brick building on Main St.; 50x100 feet.

La., Grand Cane.—Cook & Douglas will erect store building; brick construction.

La., New Orleans.—Excelsior Homestead Association will erect two-story brick building; cost \$8000.

Md., Salisbury.—T. L. Ruark & Co. have plans by W. E. Booth, Salisbury, for wholesale grocery store; 61x90 feet; three stories and basement; brick walls; interior yellow pine; freight elevator; 1500 to 2000 pounds capacity, detached motor; cost \$15,000; day labor. (Recently noted under "Warehouses.")

Miss., Meridian.—Greenwald & Champenois will erect building. It is reported, to contain five stores; brick.

Mo., St. Louis.—Edward Mallinckrodt will expend \$7300 to alter mercantile building at 615 N. 9th St.

Mo., St. Louis.—Ernst Kuhlman purchased site of 50 feet frontage on 23d St. and will erect buildings to cost \$7000.

Mo., St. Louis.—E. Ellerman will erect store and warehouse building at 25th and St. Angelica Sts.; cost, including site, \$20,000.

Mo., St. Louis.—Holbrook-Blackwelder Real Estate Trust Co. is having plans prepared by Henry F. Roach, 915 Olive St., St. Louis, for building at 915-17 Locust St. for Scruggs-Vandervoort-Barney Dry Goods Co.; fireproof; 12 stories. Architect wires Manufacturers Record: "Annex to be 47½x112 feet; cost about \$150,000; reinforced concrete construction; elevation to be gray brick and terra-cotta; will be used for warehouse and salesroom; two freight and one passenger elevators; tunnel connecting with structure opposite; floor, live load 150 pounds per square foot; plumbing; electric wiring; heating; plate-glass with wire-glass on all iron fire-escapes; maple floors; birch finish show window backs; granitoid basement; fireproof semi-automatic elevator gate and doors; turbine water pumps, etc."

N. C., Durham.—R. H. Wright will erect six business buildings on Mangum and Parrish Sts.; brick; two 23½x67 feet, two 2½x67 feet and two 2½x55 feet; pressed brick fronts; auditorium on upper floor; steam heat in one building; electric lighting; two electric freight and passenger elevators; slag roof; contract awarded to T. S. Christian, Durham, on percentage basis.

N. C., Asheville.—J. H. Jenkins will erect store and hotel building; four stories; 100x45 feet; concrete reinforced with brick; pressed brick and stone front; plate-glass windows; two top floors to contain 40 rooms for hotel; construction in charge of T. E. Davis.

N. C., Charlotte.—Charlotte Hardware Co., 30 E. Trade St., will remodel building; install new front, maple floors, elevators, etc.

N. C., Elkin.—D. J. Cockerham & Son have plans by J. B. Burcham to rebuild store recently reported burned; 25x36 feet; ordinary construction; steam or hot-air heat; probably tin roof; bids opened. (See "Machinery Wanted.")

N. C., Jacksonville.—John Scott opens bids February 15 to erect store recently noted; 35x90 feet; brick; hot-air heat; electric light; tin roof; plans by H. E. Bonitz, Wilmington, N. C. (See "Machinery Wanted.")

Okl., Konawa.—J. M. Michaels will rebuild business building; 50x140 feet; cement floors; steel ceiling; electric lighting; elevator for one story only; tin roof; cost \$5000. (Recently reported burned.)

Okl., Bennington.—H. W. Attaway is reported as to erect three one-story brick buildings; received bids until January 6.

S. C., Spartanburg.—C. Brewster Chapman will erect store and office building; eight stories and basement; 74x92 feet; fireproof; bids opened about January 15. (See "Bank and Office.")

S. C., Sumter.—J. K. Croxell contemplates rebuilding business building recently reported burned.

Tenn., Memphis.—A. Y. Allen will erect building at 1335 Goodbar Ave.; two stories; stone and stucco; cost \$4500.

Tenn., Memphis.—Gilbert Real Estate & Investment Co. will erect one-story frame building at 1186 Vinton Ave.; cost \$3500.

Tenn., Memphis.—J. J. Mackey will erect two-story frame building at 1033 Parkway; cost \$5000.

Tex., Aransas Pass.—John Hutto will erect two-story brick building on Commercial St. between Goodnight and Pacific Sts.; 50x90 feet.

Tex., Beeville.—W. O. McCurdy will receive bids until January 25 to erect one-story business block; 50x150 feet; certified check for \$250; plans and specifications at office of Stephenson & Heldensfels, Beeville.

Tex., Bloomington.—J. W. Brown will erect two-story business house.

Tex., Dallas.—Mrs. H. P. Kain will erect building at Main and Lamar Sts.; two stories and basement; brick; steam heat.

Tex., Dallas.—Henry D. Lindsay is reported as organizing company to erect arcade building in block bounded by Ervay, Bryan, Maston Sts. and Cottage Lane; two stories; brick; 275x250 feet; 100,000 square feet floor space; steam heat; two main arcades; surrounded by system of ornamental lights; cost \$250,000; will drill artesian well.

Tex., El Paso.—R. Michaelis plans, It is reported, to erect store building on San Antonio St.

Tex., Ennis.—P. Freeman will erect business building on W. Knox St.; two stories and basement; brick.

Tex., Fort Worth.—T. M. Thannach will erect store and hotel building at Main St. and Exchange Ave.; three stories; lower floor for stores; upper floors for hotel; cost \$50,000.

Tex., Fort Worth.—H. C. Meacham is reported as considering erection of building at 11th and Main Sts.

Tex., Galveston.—Hugh Hamilton, Houston, will erect business block at Mechanic and 25th Sts.; six stories; reinforced concrete.

Tex., Lubbock.—R. H. Lowery may be addressed relative to rebuilding store occupied by Simeon O'Neal. (Recently reported burned.)

Tex., North Zulch.—E. O. Bethke will erect confectionery store.

Tex., Ratcliff.—J. M. Face of Groveton, Tex., and Mr. Lloyd of Palestine, Tex., will erect store building for Mahoney Company.

Tex., San Antonio.—R. F. Alexander will expend \$3000 to alter building on Dallas St.

Tex., Shamrock.—E. H. Small & Co. open bids February 1 to rebuild store; 50x100 feet; brick. (Recently noted burned.)

Tex., Seguin.—Guaranty Loan & Trust Co. will erect building; two stories; brick; cost \$10,000.

Tex., Tyler.—J. T. McCarthy, president of State Bank & Trust Co., will, it is reported, erect eight-story building at Ferguson St. and Spring Ave.

Tex., Waco.—Sanger Bros. will, it is reported, erect store building on Austin St. between 8th and 9th Sts.; probably three stories; pressed brick.

Va., Lynchburg.—Mrs. Ellen M. Wall will erect store building on Main St.; probably three stories; 42x132 feet; ordinary construction; steam heat; gravel roof; cost \$10,000.

Va., Norfolk.—United Cigar Stores Co., main office New York, has plans by B. F. Mitchell, Seaboard Bank Bldg., Norfolk, to remodel and enlarge Burruss Building at Main and Atlantic Sts.; will soon award contract.

Va., Norfolk.—Ferries Company has plans by Ferguson, Calrow & Taylor, 1024 Royster Bldg., Norfolk, for Terminal Arcade; sheet metal construction; following contractors asked to estimate: Jesse Johnson, John T. Lenoir, Baker & Brinkley, R. H. Richardson & Son, Richardson Construction Co. and S. P. Williamson, all of Norfolk.

Va., Richmond.—C. W. Antrim & Sons, 147-25 E. Cary St., will repair building reported damaged by fire at loss of \$25,000 to \$30,000.

Va., Richmond.—G. J. Porter will erect two-story frame store and two-story frame tenement-house at 1220-22 St. James St.; cost \$3000.

Va., Staunton.—Central Realty Corporation will incorporate with authorized capital stock of \$50,000; Herbert J. Taylor, president; L. W. H. Peyton, vice-president; J. J. Pruffer, secretary; C. R. Caldwell, treasurer and manager; will erect business and office building at Central Ave. and Frederick St.; cost \$15,000 to \$30,000.

W. Va., Williamsonstown.—Dixon & Wilson contemplate erection of three-story business building.

THEATERS

Ala., Mobile.—Jacob Pollock will erect theater to replace burned structure; steel; fireproof; cost \$100,000.

Md., Baltimore.—Edmondson Amusement Co. is having plans prepared by F. E. Beall, 213 St. Paul St., Baltimore, for moving-picture theater at Edmondson Ave. and Pulaski St.; one story; brick; 26x85 feet; galvanized iron front; concrete foundation.

Md., Frederick.—New Empire Theater Co. will be organized with R. Eward Kepner, president; A. J. Michelberger, vice-president; W. O. Kolb, secretary treasurer; F. Lester Smith, manager; acquired Junior

Fire Company Hall and will remodel for moving-picture theater; install new front; 12 exits on first floor; seating capacity, 900. (This property recently noted purchased by Mr. Kolb and Mr. Kepner noted as preparing plans.)

N. C., Wilmington.—J. M. Solky of J. M. Solky & Co. purchased Bonitz Hotel property and will erect theater.

Tenn., Cookeville.—Mr. and Mrs. Long of Savoy Theater, It is reported, will erect opera-house.

Va., Crozet.—Crozet Amusement Co. will erect vaudeville and motion-picture theater; 20x80 feet; frame; steel ceiling; ornamental front.

WAREHOUSES

Ark., Pine Bluff.—Westbrook Grain & Commission Co. has plans for 100x200-foot warehouse and 15,000-bushel grain elevator; recently noted. (See "Miscellaneous Enterprises.")

Ga., Culloden.—Culloden Warehouse Co. will be incorporated with \$2500 capital stock by C. W. Battle W. A. Chatfield, I. H. Castlen and others; reported as to erect cotton warehouse.

La., New Orleans.—Board of Port Commissioners plans to expend \$100,000 to convert Valencia shed into cotton warehouse, and is having plans prepared by J. Frank Coleman, consulting engineer of board; plan is to equip wharf and shed with fire-fighting apparatus, including firewalls extending below the low-water line and above roof, install cotton-handling facilities at cost of \$30,000, equip with water tower, sprinkler system, erect compress in rear of shed equipped with carriers, etc. (Plan for extensive warehouse and compress system previously noted.)

Md., Baltimore.—John E. Hurst & Co., 30 to 45 Hopkins Pl., have plans by Parker, Thomas & Rice, Union Trust Bldg., Baltimore, and are receiving bids to erect warehouse at 116-118 W. Lombard St.; seven stories; 40x130 feet; contractors estimating are: Geo. Bunnecke & Sons, 305 St. Paul St.; Edward

Watters, 509 N. Charles St.; B. F. Bennett Building Co., 123 S. Howard St.; Moore Bros., 216 W. Saratoga St.; McLaughlin Bros., 927 Bolton St.; John Hiltz & Sons, 7 Clay St.; J. J. Walsh, 1533 Maryland Ave.; Monmonier & Sorrell, 1711 McCulloh St.; D. M. Andrew Company, Mt. Vernon Ave. and 26th St.; Consolidated Engineering Co., Bromo-Seltzer Tower Bldg.; Edward Brady & Sons, 1113 Cathedral St.; Charles L. Stockhausen, National Marine Bank Bldg.; Singer-Pentz Company, 600 Equitable Bldg.; J. O. Hederman, 1601 Lafayette Ave., all of Baltimore. (Recently noted.)

Mo., St. Louis.—E. Ellerman will erect store and warehouse building. (See "Stores.")

Mo., St. Louis.—Holbrook-Blackwelder Real Estate Trust Co. is having plans prepared for warehouse and salesrooms for Seruggs-Vandervoort-Barney Dry Goods Co. (See "Stores.")

Mo., St. Louis.—John F. McDermott, J. S. Turley and others are reported as interested in plan to remodel Southern Hotel for storage-house and install cold-storage facilities.

Mo., St. Louis.—Julius Pitzman will not erect warehouse recently reported.

N. C., Charlotte.—International Harvester Co. of America, Chicago, Ill., leased three-story brick Victor Mill building at Cedar and 4th Sts. and will remodel, install elevators, etc.; will also erect storage warehouse.

N. C., Greenville.—Pitt County Union Warehouse Co. incorporated with \$125,000 capital stock by W. E. Tucker, R. T. Little and others.

Tex., Fort Worth.—Fort Worth Warehouse & Transfer Co. incorporated with \$50,000 by W. D. Harris, Temple Harris and M. B. Harris.

Va., Richmond.—Cameron Store Co. has plans by A. F. Hunt, Richmond, for warehouse, 50x75x24 feet; mill construction; elevator. (See "Foundry and Machine Shops" and "Machinery Wanted.")

Fla., St. Petersburg.—H. W. Plunkett awarded contract to erect eight-room residence on 8th St.

Fla., Tampa.—E. R. Gumby awarded contract to G. A. Miller, 28 Petteway Bldg., Tampa, to erect proposed dwelling; 80x80 feet; brick and hollow tile; electric lighting; shingle roof; cost \$15,000; plans by F. J. Kennard, Tampa.

La., New Orleans.—Mrs. A. D. Howard awarded contract to erect brick and concrete residence at 25 Audubon Pl.

Md., Baltimore.—Willie V. Guthrie, 227-29 Holliday St., awarded contract to J. F. Hardy, 4200 Groveland Ave., Baltimore, to erect residence at Callaway Ave. and Egerston Rd.; two and a half stories; frame; slate roof; hot-water heat; cost \$5200; plans by George R. Morris, 46 Gunther Bldg., Baltimore.

Md., Baltimore.—August Weber awarded contract to Frank Novak, 744 N. Kenwood Ave., Baltimore, to erect 25 two-story dwellings in 1300 block Glyndon Ave.; one to be 13x45 feet, others 13x40 feet; cost \$16,500; plans by Joseph F. Hirt, 744 N. Kenwood Ave., Baltimore.

Mo., Kansas City.—M. M. Stone awarded contract to erect four bungalows; five rooms each; stone and frame; hot-air heat; electric lighting; shingle roof; cost \$2500 each; plans by H. P. Green, Scarritt Bldg., Kansas City. (Recently noted.)

Mo., Maplewood.—Delbert S. Menzlick, 1019 Chestnut St., St. Louis, Mo., has plans by and awarded contract to Thomas L. House, 3621 Minnesota Ave., St. Louis, Mo., to erect proposed dwelling; 38x43 feet; stone and brick construction; hot-water heat; gas and electric lighting; red vitrified shale tile roof; cost \$5000.

N. C., Salisbury.—Sam Trexler awarded contract to erect dwelling.

Tenn., Nashville.—George Schwab awarded general contract to Edgefield & Nashville Manufacturing Co., Nashville, to erect dwelling; B. S. Lewis was awarded contract for brick work only, not general contract, as recently reported.

Tenn., Memphis.—Mrs. Sidney Read awarded contract to Gilbert Real Estate & Investment Co. to erect residence at 58 N. Montgomery St.; two stories; 11 rooms; stone veneer; cost \$9500.

Tex., Brenham.—Dr. J. W. Tottenham awarded contract to erect residence; brick; two stories and basement.

Tex., Bloomington.—A. J. Barnett awarded contract to erect residence.

Tex., Waco.—G. W. McKee awarded contract to Oscar Myre Building Co. to erect residence at 18th and Mitchell Sts.; two stories; cost \$6000.

Va., Richmond.—R. W. Wood awarded contract to E. C. Woodward, Richmond, to erect dwelling at 2612 W. Grace St.; two stories; 37x70 feet; ordinary construction; slate roof; cost \$14,298; plans by Noland & Baskerville, Richmond.

GOVERNMENT AND STATE

Ga., Griffin.—Georgia Experiment Station, J. J. Connor, president, awarded contract to erect two concrete barns; cost \$7000.

HOTELS

Ky., Jackson.—Hotel Jefferson Co., C. J. Little, president, awarded contract in November to A. Dietz & Co., Mt. Sterling, Ky., to erect hotel; 72x94 feet; pressed brick; hot-water heat; electric lighting; plans also by A. Dietz & Co.; cost \$50,000. (Mr. Little previously noted to erect hotel.)

Mo., Kansas City.—Charles C. Harrison awarded contract to J. F. Behrens, Kansas City, to remodel Cordova Hotel; cost \$20,000.

Tex., Galveston.—Charles D. Morrison awarded contract to H. H. Lawsen to erect hotel at 2309 Church St.; 35 rooms; frame; cost \$7000.

MISCELLANEOUS

S. C., Sumter.—Stable.—A. D. Harby has plans by and awarded contract to Building Supply Co., Sumter, to rebuild stable; 40x100 feet; brick; iron roof; electric lighting; crimp iron roof; cost \$3500. (Recently noted burned.)

Tex., Pleasanton.—Restaurant.—R. L. Ross has contract to erect eating-house on property of San Antonio, Uvalde & Gulf Railroad.

RAILWAY STATIONS, SHEDS, ETC.

Ark., Camden.—St. Louis, Iron Mountain & Southern Railway Co., J. R. Stephens, chief engineer, St. Louis, awarded contract to Continental Building & Construction Co., St.

Louis, Mo., to erect passenger and freight stations. (Previously noted.)

Fla., Fellsmere.—Fellsmere Railroad Co., I. S. Lloyd, chief engineer, awarded contract to E. M. Botts, West Palm Beach, Fla., to erect passenger depot; board and batten construction; shingle roof; platform 10x75 feet; station 12x32 feet, with central office 12x14 feet; freight depot 16x50 feet, with wagon platform and freight car platform; passenger platform 8x50 feet.

S. C., Camden.—St. Louis, Iron Mountain & Southern Railway Co., E. F. Mitchell, chief engineer, St. Louis, Mo., awarded contract to erect passenger depot.

Tex., El Paso.—El Paso Electric Railway Co. has plans by and awarded contract to Stone & Webster Engineering Corp., Boston, Mass., to construct addition to car barn; 140x75 feet; mill construction; conduit system of lighting; Genasco roofing; cost \$23,850. (Recently noted.)

SCHOOLS

Ga., Dahonega.—Trustees of North Georgia Agricultural College awarded contract to J. F. & J. B. Sargent, Dahonega, to erect industrial building; three stories; brick and stone; cost \$20,000; plans by J. Frank Moorefield, Dahonega. (Recently noted.)

La., White Castle.—Iberville Parish School Board awarded contract at \$20,645 to August Barbay, Plaquemine, La., to erect high school; three stories; pressed brick; concrete foundation; 12 classrooms; auditorium to seat 650; plans by Nolan & Torre, 415 Hennen Bldg., New Orleans, La. (Previously noted.)

Md., Baltimore.—Board of Awards awarded contract at \$53,852 to Singer-Pentz Company, 600 Equitable Bldg., Baltimore, to erect addition to No. 39 school, North Ave. and Washington Sts.; three stories; fireproof and joist construction; slag roof; plans by Howard Hill, 11 Pleasant St., Baltimore. (Recently noted.)

S. C., Hartsville.—Trustees of Coker College awarded contract through Wilson & Sompayrac, architects, 1302 Main St., Columbia, S. C., to erect dormitory; cost about \$50,000. (Recently noted under S. C., Columbia.)

Tex., Weatherford.—Fairmont Seminary awarded contract to Lott & Ashworth and Davidson Bros., Weatherford, to erect boarding hall for girls; three stories; 40 rooms; brick veneer, with plastered walls; steam heat; electric lighting; gravel roof; cost \$12,000; plans by Waller, Shaw & Fields, Fort Worth, Tex. (Previously noted.)

Va., East Radford.—City awarded contract to Hall & Haley, Pulaski, Va., to erect proposed school building; two stories; fireproof construction; slate roof; cost \$8000; plans by C. M. Robertson, Richmond, Va.

Va., Pulaski.—School Board awarded contract at \$4400 to Hall & Haley, Pulaski, to erect high school at 3d and Downey Sts.; hall on lower floor with schoolrooms above.

STORES

Ark., Pine Bluff.—C. H. Triplett awarded contract to J. W. Dutton to remodel building at Third Ave. and Walnut St.; cost \$10,000.

Ga., Valdosta.—Empire Construction Co., Douglas, Ga., has contract to erect store building to be occupied by S. H. Kress Company, New York; cost \$19,000.

Ga., Valdosta.—D. C. Ashley awarded contract to erect store building; three stories.

La., Newellton.—John Zucarina awarded contract to William Stietenroth, Natchez, Miss., to erect building; one story; brick; 30x60 feet.

La., Newellton.—Andrew Lombardi awarded contract to William Stietenroth, Natchez, Miss., to erect building; one story; brick; 30x60 feet.

Md., Baltimore.—Aaron Strauss, Equitable Bldg., awarded contract to Joseph Schamberger, 2122 E. Baltimore St., Baltimore, to remodel building at 413-15 N. Howard St. for two stores; will install new front, make interior changes, etc.; plans by Louis Levi, Real Estate Trust Bldg., Philadelphia, Pa.

Mo., Kansas City.—Gregg & Bowron awarded contract to erect store and apartment building recently noted. (See "Apartment-Houses.")

S. C., Lexington.—J. S. Caughman & Co. have plans by and awarded contract to C. E. Corley, Lexington, to erect proposed business building; 50x90 feet; two stories; brick; electric lighting; metal roofing; cost \$6500.

Tex., Eagle Lake.—Mrs. Wm. J. Franz awarded contract to G. W. Keith to erect two business houses on Main St.

BUILDING CONTRACTS AWARDED

APARTMENT-HOUSES

Mo., Kansas City.—Gregg & Bowron, 3800 Harrison Blvd., awarded contract to Charles H. Luce, 2217 Park Ave., Kansas City, to erect apartment and store building; 50x70 feet; three stories; vitrified brick; steam heat; gas and electric lighting; gravel roof; cost \$20,000; plans by Arthur L. Sparks, Kemper Bldg., Kansas City. (Previously noted.)

ASSOCIATION AND FRATERNAL

Fla., Tampa.—Tampa Lodge, Benevolent and Protective Order of Elks, awarded contract to G. A. Miller, Tampa, 23 Petteway Bldg., Tampa, to erect clubhouse previously noted; 105x70 feet; six stories; fireproof construction; cost \$55,000; plans by Holmboe & Lafferty, Empire Bldg., Clarksburg, W. Va. (See "Machinery Wanted.")

BANK AND OFFICE

Fla., Sanford.—Mr. Shinholzer has contract to erect office, platform and sheds at north end of passenger station to be occupied by Southern Express Co., main office, 71 Broadway, New York; main building of brick; 20x40 feet; platform to contain 1600 square feet; slate roof on umbrella shed and main building; cost \$12,000.

Ga., Atlanta.—Chamber of Commerce Realty Co. awarded contract to Griffin Construction Co., Atlanta, to remodel and erect addition to Y. M. C. A. building for Chamber of Commerce; total cost \$50,000; plans by A. Ten Eyck Brown, Atlanta. (Previously noted.)

Tex., Dallas.—Alex. Watson Construction Co., Dallas, has contract to remodel North Texas Bldg. at 905-11 Main St., according to plans by Hubbell & Greene, Dallas; install marble floors and wainscoting, elevators, electric wiring, telephones, etc.

Tex., Orange.—Lutcher & Moore Lumber Co. awarded contract to American Construction Co., Houston, Tex., to erect office building to replace burned structure; two stories; 48x63 feet; fireproof; reinforced concrete; first story faced with tapestry brick; second story stucco effect; vault rooms. (Recently noted.)

Va., Lynchburg.—People's National Bank awarded contract to Metzger & Wells, Heed Bldg., Philadelphia, Pa., to erect bank and office building; 48½x128 feet; 10 stories; fireproof construction; cost \$300,000; plans by Stern & Fellheimer, New York. (Previously noted.)

CHURCHES

Miss., Monticello.—Baptist church awarded contract to R. R. Berry to erect addition to edifice.

Mo., St. Louis.—Grand Avenue Presbyterian Church awarded contract to Murch Bros. Construction Co., 816 Olive St., St. Louis, to erect chapel; 46x128 feet; ordinary construction; steam heat; slate roof; exterior of stone and gray granite, finished in marble and quarter-sawn oak; cost \$50,000; plans by A. B. Groves, St. Louis. (Murch Bros. Construction Co. recently noted as lowest bidder.)

N. C., Spencer.—Shady Grove Baptist Church awarded contract to Mr. Brown to erect edifice.

Tex., Houston.—Tabernacle Methodist Church, Rev. L. A. Graham, pastor, awarded contract to Trigg & Shields, Houston, to erect edifice at Gray and Crawford Sts.; two stories; frame; 32x44 feet. (Recently noted.)

CITY AND COUNTY

Ga., Augusta.—Hospital.—City Council will fireproof city hospital buildings at additional cost of \$60,000, making total cost of work so far awarded \$218,000; reinforced concrete and terra-cotta fireproofing specified; sanitary floors and base; King Lumber Co., Charlottesville, Va., general contractor. (Recently noted.)

COURTHOUSES

Miss., DeKalb.—Kemper County Commissioners awarded contract at \$36,650 to Hancock & McArthur to erect courthouse; fireproof; stone; terra-cotta and pressed brick; plans by P. J. Krouse, Meridian, Miss. (Recently noted.)

DWELLINGS

D. C., Washington.—G. G. Easley, Evans Bldg., awarded contract to C. H. Taylor, Cleveland Park, Washington, to erect two dwellings; 26x43 feet; hot-water heat; slate roof; cost \$7500 each; plans by R. Stanley Simmons, 1301 G St. N. W., Washington. (Recently noted.)

Fla., Palatka.—F. C. Cochrane has plans by and awarded contract to Edward Stokes to erect residence; concrete and frame; oak finished interior; double porches; diamond frame windows; brick and tile mantels; steam heat; gas and electric lights; cost \$10,000.

Va., Richmond.—G. B. & P. Hunter awarded contract to Davis & Archer, Richmond, to erect two-story brick building on south side of Hanover Ave. between Robinson and Mulberry Sts.; cost \$6305.

Va., Richmond.—August Simonpeltri, 611 E. Marshall St., awarded contract to W. P. Knowles, Richmond, to erect two stores on Hull St.; ordinary construction; brick; tin roof; plans by H. Cain, Richmond. (Recently noted.)

THEATERS

Ark., Little Rock.—Abe Stowell awarded contract at \$2500 through Theodore Sanders, architect, Little Rock, to excavate and construct foundation for theater building at 5th and Main Sts.; 65x150 feet; auditorium to seat 1500; fireproof. (Recently noted.)

La., New Orleans.—Herman Fichtenberg, 720 Maison Blanche Bldg., awarded contract to Humphreys & Eltman to remodel first floor of moving picture parlor; 23x114 feet; ordinary construction; plans by Favrot & Lavanais, 505 Perrin Bldg., New Orleans. (Recently noted to cost \$20,000.)

Tenn., Clarksville.—Joe Goldberg awarded contracts as follows to erect Lillian Theater at Franklin and 1st Sts.: Fred L. Smith

Sons Company, for brick and other work; Decorative Supply Co., Chicago, Ill., for stucco work; Cincinnati (O.) Decorating Co., for frescoing; two-story front; brick walls; concrete foundation; Bedford or Bowling Green dressed stone door and window sills; floors supported by iron columns; fireproof; cost \$20,000; plans by C. K. Colley, Nashville, Tenn. (Recently noted.)

WAREHOUSES

Va., Richmond.—B. W. Wilson Paper Co. awarded contract to R. M. Anderson & Co., Richmond, to erect warehouse at Franklin and Governor Sts.; slow burning construction; four stories; foundation and basement walls of concrete, with brick walls above; two fronts, cornice and trimmings faced with press brick; body of select common brick, with bluestone and limestone trimmings; steam heat; electric lights; emergency gas on first floor; elevator and stair tower enclosed with brick walls; double vertical overhead slide fire doors; fire-escapes in front; high-speed freight and passenger elevators and dumbwaiters; automatic chute; overhead track conveyor on first floor; concrete floors in basement; cost \$25,000; completion by October 1; plans by Herbert L. Cain, Richmond.

the following stockholders: David May, Morton J. May, M. Shoenberg, S. M. Shoenberg, Tom May, E. M. Kurtz, Henry Little, Nathan Frank, Washington University and L. D. Shoenberg.

Mo., Nevada.—W. A. Thompson of Kansas City is president; S. A. Wight of Nevada, Mo., vice president; W. I. Diffenderfer of Lebanon, Mo., secretary and treasurer, and Mr. Lewis of Kansas City chief engineer of the Nevada, Lebanon & Eastern Railroad Co., which proposes to build a line about 100 miles long from Nevada to Lebanon via Stockton, Bolivar and Buffalo, Mo. The president's address is 309 Garfield Ave., Kansas City, Mo.

Mo., Webb City.—J. R. Stephens, chief engineer of the Missouri Pacific Railway, St. Louis, is reported saying that the construction of additional yard tracks at Webb City will not cost more than \$7000 or \$8000, and that the work will be done by the company's forces. The press report that \$40,000 would be spent is in error.

N. C., Lillington.—The Central Carolina Railroad Co. (not the Atlantic & Western, as recently stated in a press report) will build the proposed line from Lillington to Goldsboro or Mt. Olive, N. C. Survey is under way. W. J. Edwards & Co. of Sanford, N. C., and Fourth National Bank Bldg., Atlanta, Ga., are interested.

N. C., Pembroke.—The Pembroke, Red Springs & Northern Railroad Co. is reported to have authorized an extension to Raeford, making it 22 miles long from Pembroke via Red Springs. W. J. Johnson is president.

Okla., Ardmore.—George L. Reeder of Guthrie, Okla., with a corps of engineers, is reported to have begun survey for the Oklahoma, New Mexico & Pacific Railway from Ardmore to Lawton, Okla., about 100 miles. Charter has been granted. Capital \$1,000,000. Incorporators: John Ringling, New York; Charles C. Wilson, Chicago; M. Ringling, New York; R. V. Gunton, W. R. Gunton, Jake L. Hamon and Fred C. Ellis of Lawton, Okla. Construction is expected to begin this month.

Okla., Clinton.—Reported that it is contemplated to extend the Clinton & Oklahoma Western Railway from Clinton east to Chickasha, Okla., about 75 miles, to connect with the Oklahoma Central Railroad. T. J. Nance, Clinton, Okla., is vice-president and general manager.

S. C., Charleston.—The Charleston-Isle of Pines Traction Co., capital \$1,000,000 has been granted a charter. James Sottile, president, is the principal stockholder. (See Manufacturers Record, January 8.)

Tenn., Chattanooga.—C. E. James of Chattanooga will, it is reported, in addition to his other interurban railway enterprise, construct a line up Lookout Mountain on grade.

Tenn., Knoxville.—The Sevier County Court is reported to have granted an extension of time until April 1 to the Knoxville, Sevierville & Eastern Railway to begin construction of its proposed extension east from Sevierville to the North Carolina boundary. W. J. Oliver is president and W. A. Seymour chief engineer, both at Knoxville, Tenn.

Tenn., Lynchburg.—W. G. Cummings of Manchester, Tenn., is reported contemplating construction of an electric railway from Tullahoma southeast to Lynchburg, about 15 miles, and will make preliminary survey immediately. He is general manager of the Stone Fort Power Co.

Tenn., Nashville.—H. B. Chamberlain and W. M. McAlister, receivers of the Tennessee Central Railroad, formally announce that as rapidly as possible the physical condition of the road will be improved and its facilities extended and enlarged. L. F. Lonnbladh is chief engineer.

Tex., Austin.—President C. E. Schaff of the Missouri, Kansas & Texas Railway, is quoted saying that \$2,000,000 will be spent by it in Texas this year for additions and betterments, including rebalancing the entire main line, relaying about 170 miles of track with 85-pound rails, building passing tracks, installing new bridges, culverts, etc., reducing grades and curves, besides much other work. A. M. Acheson, Dallas, Tex., is chief engineer.

Ark., Little Rock.—The Arkansas Penitentiary Board has adopted a resolution that a railroad four miles long be built from the State farm to Varner, Ark., by convicts under the supervision of J. E. McCook, warden.

Tex., Dallas.—The Southern Traction Co., says a report quoting an official, is now pushing construction from Dallas to Corsicana via Ferris, 55 miles, and it is also hastening the completion of its Dallas-Waco line, part of which (from Dallas to Waxahatchie, 32

miles) is already in operation, leaving about 65 miles to be finished. The Southern Engineering & Construction Co., Dallas, Tex., is the contractor.

Tex., Dallas.—W. A. Obenchain, Jr., chief engineer Eastern Texas Traction Co., 307 Commerce St., Dallas, says line will be 57 miles long, from Dallas to Greenville via Garland, Rockwall, Fate, Royse City, Josephine and Caddo Mills. All bridges will be reinforced concrete from 100 feet to 2200 feet long, the latter one in East Fork of Trinity River bottom, with 20-foot spans and slab construction. Karner Bros., 601 Wilson Bldg., Dallas, the contractors, have completed about 6½ miles of dump, and some concrete culverts are now being put in. Heavy work at Rockwall and near Dallas.

Tex., Beaumont.—The Frisco System, according to a report quoting an officer, will spend \$25,000 for freight improvements, including yards, at Beaumont. F. G. Jonah, St. Louis, Mo., is chief engineer of construction.

Tex., Dallas.—Lee H. Parker of the Stone & Webster Engineering Corporation, 147 Milk St., Boston, is arrived in Dallas to work out plans for constructing the proposed union terminal station for interurban lines.

Tex., Fredericksburg.—Foster Crane, contractor for the construction of the San Antonio, Fredericksburg & Northern Railway, is reported to have appointed Frank Richards as chief engineer. Construction offices will be in the Gunter Bldg. at San Antonio, Tex. R. A. Love is president of the road, which is expected to be completed in the spring.

Tex., Galveston.—The Galveston, Houston & Henderson Railroad, it is reported, will build 19 miles of additional tracks on Galveston Island, this being the west end yards. J. H. Hill is manager.

Tex., Marshall.—The Marshall & East Texas Railroad Co. is reported considering a proposition to extend from Winnsboro to Mount Pleasant, Tex., about 25 miles. J. E. Votaw is vice-president and general manager, and R. J. Lockwood chief engineer, both at Marshall, Tex.

Tex., San Antonio.—The San Antonio & Austin Interurban Railway Co., capital \$25,000, has filed incorporation articles to build a line between the two cities named in its title, 30 miles. Incorporators, Voyer P. Brown, W. T. Tuttle and Sam C. Bell, all of San Antonio.

W. Va., Fairmont.—J. O. Watson, general manager Monongahela Valley Traction Co., is quoted saying that its new extensions will cause an expenditure of about \$400,000. They are as follows: Wolf Summit to Salem, W. Va., 10 miles; Haywood to Lumberport, 2 miles, and East Run to Annabell, 2 miles.

STREET RAILWAYS

Ala., Birmingham.—The Birmingham, Ensley & Bessemer Railway Co., in which Morris Bros. of Philadelphia, J. M. Dewberry of Birmingham and others are interested, has asked for a franchise to construct new lines over about 125 blocks distance. G. I. Brown is general manager.

Ala., Montgomery.—Richard Tillis, president of the Montgomery Light & Traction Co., is quoted saying that he will build an extension of half a mile to the new Capital City Country Club on Woodley Rd. as soon as the club asks for it.

Ala., Ensley.—The Birmingham Railway, Light & Power Co. is reported to have begun construction of an extension of the Owenton car line to connect with the Tuxedo line.

Ark., Fayetteville.—Concerning the recent report that he and W. Owens of Muskogee, Okla., were granted a franchise for a street railway in Fayetteville, John A. Connolly, 1217 W. Okmulgee St., Muskogee, says it is proposed to build from 1 to 10 miles of line. Company not yet incorporated, but may be as Fayetteville Light & Traction Co.

Ga., Waycross.—The Waycross Street Railway Co., it is reported, will soon build its contemplated line to Hebardville.

Ky., Maysville.—The Maysville Traction Co., it is reported, proposes to build an extension to the suburbs known as Eastland and Oklahoma.

La., Baton Rouge.—The Baton Rouge Electric Co. has accepted the city franchise for an extension on Florida St. and East Blvd. to Railroad Ave. It must be constructed within a year.

S. C., Greenwood.—The Greenville, Spartanburg & Anderson Railway (Piedmont & Northern Lines) will, it is reported, construct a city line in Greenwood to connect with its interurban to Belton, Anderson and

RAILROAD CONSTRUCTION

RAILWAYS

Ala., Tuscaloosa.—Gillmore Bros., coal operators, are about to build a tramway from their mines on the Van de Graaff property to the plant of the New Orleans Barge & Navigation Co. at Three Branches. W. F. Files will have charge of construction.

Ala., Birmingham.—The Tidewater Power Co., in which J. W. Dewberry and others are interested, proposes, according to a published report quoting him, to construct an independent railroad from Birmingham to the Warrior River, about 25 miles, to connect there with a steamboat line.

Ala., Opp.—Edward Kelly and others, it is reported, will build a railroad from Opp to Troy, Ala., beginning it as a tramway. About 15 miles have been surveyed.

Ark., Paris.—The Fort Smith, Subiaco & Eastern Railway is reported working on a plan for an extension to Dardanelle, Ark., about 25 miles. Henry Stroup, Paris, Ark., is president and general manager.

Fla., Hastings.—Franchises have been asked for the Interurban Railroad Co., capital \$250,000, to build a line from Hastings to Palatka, Fla., about 10 miles. C. A. Dupont is president, Howell A. Davis vice-president, F. J. H. von Angelen secretary, and T. R. Byrd treasurer.

Fla., Tampa.—Notice is published of intention to apply for charter for the Tampa & Gulf Coast Railroad Co., which appears to be for the purpose of acquiring the Tampa & Gulf Coast Railway in the interest of the Seaboard Air Line, as it is signed by P. O. Knight, attorney at Tampa for the system, and, moreover, the railway in question is a branch of the Tampa Northern that the Seaboard acquired some months ago. The charter provides for the construction of branches and the officers named are thus: J. Edgar Wall, president; J. T. Watson, Jr., vice-president and general manager; J. A. Griffin, secretary and treasurer, all at Tampa. Another report says that a line will be built by this company via Clearwater to St. Petersburg, Fla.

Ga., Darien.—The Georgia Coast & Piedmont Railroad, which has completed its extension from Darien to the Altamaha, about six miles, is reported to have also practically finished track from Brunswick to the river, about 12 miles, so that all which remains to be done to connect the two ends of the extension is to erect the bridge, the steel for which is ordered. A. de Sola Mendes is vice-president and general manager at Darien, Ga.

Ky., Ashland.—The Ohio Valley Electric Railway Co. is reported surveying for a contemplated extension from Ashland to Russell, Ky., about four miles. W. W. Magoon, Huntington, W. Va., is general manager.

Ky., Jenkins.—The recent press report that the Sandy Valley & Elkhorn Railroad would be extended from Jenkins to McRoberts, Ky., to connect with the Louisville & Nashville Railroad is denied by the Baltimore & Ohio Railroad, the operating company.

Ky., Taylorsville.—Rowland Cox, chief engineer, says that survey is being made for the Taylorsville & Jeffersontown Electric Railroad, which will be about 21 miles long, connecting at Jeffersontown with the Louisville city railway. There is an easy grade

Ky., Winchester.—John C. M. Day, vice-president and general manager Mountain Central Railway Co., says, with reference to a recent report, that survey was made some time ago for an extension from Campton to Hazel Green, Ky., but it has not been decided when it will be constructed. Nothing will be done for at least a year or a year and a half.

La., New Orleans.—The New Orleans Southern & Grande Isle Railway is reported negotiating for right of way to construct a branch from a point about 20 miles south of New Orleans to Grande Isle, about 30 miles. C. E. A. Carr is general manager at New Orleans.

Md., Hagerstown.—The Hagerstown, Green-castle & Mercersburg Electric Railway Co. of Maryland, capital \$150,000, has been organized for the construction of the Maryland end of the railway from Hagerstown to Mercersburg, Pa., about 23 miles. Benjamin F. Hamilton is president; Alexander Hamill, vice-president and treasurer, and A. R. Shaster, secretary.

Md., Millersville.—The Baltimore Construction Co. is reported to have begun laying track near Millersville on the proposed Baltimore & Virginia Railway. It is understood that this work is to comply with charter requirements which prescribed a time limit to start work. H. M. Thompson, 118-120 E. Pratt St., Baltimore, and others are interested.

Miss., Columbia.—The New Orleans Great Northern Railroad is reported to have let contract to Boyd & Bradshaw of Columbia to build an extension of three miles to timber lands of the Great Southern Lumber Co. northeast of Columbia.

Miss., Wiggins.—The New Orleans, Mobile & Chicago Railroad is reported to have graded about 25 miles of its contemplated extension to New Orleans from Wiggins toward Ashley, La., and survey has been made from Beaumont, Miss., to Ashley. W. F. Owen, Mobile, Ala., is president and general manager, and B. V. Wright, Laurel, Miss., is chief engineer.

Mo., Cape Girardeau.—The Cape Girardeau & Northern Railroad Co. has been incorporated with \$2,500,000 capital stock and authorized bonds of equal amount to take over, improve and extend as need be, the Chester, Perryville & Ste. Genevieve Railway, the Cape Girardeau & Chester Railroad, and other lines recently acquired by J. Hunter Byrd and others from Louis Houck. A line is to be built from Farmington, probably to Flat River, Mo. Directors are George W. Simmons, A. R. Byrd, Jr., Allen T. West, J. H. Byrd and G. H. Walker of St. Louis. J. H. Byrd will be president, E. R. Byrd vice-president, A. R. Byrd, Jr., treasurer, and R. H. Schultz general manager. Office in National Bank of Commerce Bldg., St. Louis.

Mo., Charleston.—The Missouri Public Utilities Co., capital \$1,000,000, has been incorporated at St. Louis to operate in the southeastern part of Missouri, including Charleston, Sikeston, Illinois and Fornefeld, and among other things it may build and operate electric railways. The incorporators include Hugo Wurdack, who is president of the St. Louis Light & Development Co., in the Wright Bldg.; H. W. Beck, W. A. Smith, the latter also being trustee for

Greenville, W. S. Lee, Charlotte, N. C., is vice-president and chief engineer.

Tenn., Chattanooga.—The Chattanooga Railway Co., it is reported, will spend \$500,000 this year for improvements and additions. W. E. Boileau is general manager.

Tex., Brownsville.—The Brownsville Street & Interurban Railway is reported to have begun regular service on three miles of line in the city. L. Dwormann is president.

Va., Culpeper.—G. W. Wright, president of the Blue Ridge Development Co., which is promoting the Culpeper, Madison & Rappahannock Railroad from Culpeper to Washington, Va., has, it is reported, been authorized to negotiate the bonds for the enterprise,

and it is expected that construction will begin about April 1. Capital, it is said, has been interested.

W. Va., Morgantown.—The Morgantown & Wheeling Railway Co., recently organized, has, it is reported, acquired the Morgantown & Dunkard Valley Railroad Co., and will complete its line from Cassville via Blacksville to Elm Grove and Wheeling, W. Va., about 73 miles. J. Ami Martin is general manager. Others interested in the Morgantown & Wheeling company are Dr. L. S. Brok, George C. Sturgiss, H. L. Car-specten, Frank Weaver, James McGrew, Samuel Eakins, Sanford Barrickman, W. C. Lemley and R. D. Hennen of Morgantown, W. Va.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers Record has received during the week the following particulars as to machinery and supplies wanted.

Barber-shop Equipment.—T. L. Eberhardt, Chester, S. C., wants prices on equipment for barber shop.

Boiler.—See "Engine and Boiler."

Boiler.—White Swan Laundry, McGeehe, Ark., wants 30-horse-power upright boiler.

Boilers.—See "Wood-chemical Plant."

Boilers.—See "Electrical Machinery."

Boilers.—See "Dredgeboat Equipment."

Boilers.—George J. Adams, 39 South St., corner Old Slip, New York, wants two 150-horse-power water-tube boilers, 150 pounds steam, for Ohio delivery.

Brick.—See "Wood-chemical Plant."

Brick.—See "Coke Oven Plant."

Brick Machinery.—General Equipment Co., E. O. Perry, manager, 10 State St. W., Savannah, Ga., wants information on brick-making and prices on equipment for plant.

Bridge Construction.—Crisp County Commissioners, J. M. Tomlinson, chairman, Cordele, Ga., receive bids until February 4 for erection of steel 150-foot bridge across Gum Creek, one mile from Cordele.

Bridge Construction.—Scott county receives bids at office of clerk at Gate City, Va., for constructing bridge near Hill Station, Va.; 437 feet 2 inches long, 12-foot roadway; to include two 150-foot steel spans, one 50-foot span and one 80-foot span; cement rubble substructure; plans and specifications on file with clerk at Gate City; blueprints can be secured from Childrey-Sunday Company, Richmond, Va.; P. St. J. Wilson, State Highway Engineer, Richmond, Va.

Bridges.—Floyd county receives bids January 27 at noon, Floyd, Va., to construct two bridges, one over Burks Fork, 229 feet 4 1/2 inches long, 12-foot roadway; 87 feet 6 inches steel span and 8 approach spans; other across South Fork of Roanoke River, 87 feet 6 inches steel span, 12-foot roadway; concrete substructures; P. St. J. Wilson, State Highway Engineer, Richmond, Va.; plans and specifications on file with Clerk of Circuit Court at Floyd; blueprints may be secured from Childrey-Sunday Company, Richmond, Va.

Bridges.—See "Road Construction."

Building Materials.—G. A. Miller, 23 Pettway Bldg., Tampa, Fla., wants prices on steel frame, metal lumber, hollow tile backing, for \$85,000 fireproof lodge building.

Building Materials.—David Castle & Co., 310 First National Bank Bldg., Houston, Tex., wants prices on brick, rock, cement, plaster, blackboards and iron stairs for school building at Port Arthur, Tex.

Building Materials.—H. E. Bonitz, Wilmington, N. C., wants prices on steel, plate glass, prism lights, tile and hardwood floors.

Building Materials.—Builders' Exchange, 119 Campbell Ave. West, Roanoke, Va., wants catalogues from manufacturers and dealers in all kinds of building materials.

Bulkhead.—See "Paving, etc."

Canning Machinery.—J. O. Borton, Marshallville, Ga., will want prices on small canning outfits and tools for vegetables and fruits.

Canning Machinery.—Robbins & Daggett, Grubb Bldg., Salisbury, N. C., want prices on equipment for canning factory.

Cars.—Jett Bros. Contracting Co., Mobile, Ala., will probably purchase 5 or 6, 6 to 12-yard side-dump cars.

Castings, etc.—J. H. Fulford, 700 Forsythe Bldg., Atlanta, Ga., wants to correspond with manufacturers of small brass and aluminum castings for model work; also wants pulleys, ecentrics, bolts, etc.

FOR the benefit of business concerns, engineers, contractors, machinery manufacturers, dealers and others who find it profitable to follow up daily the industrial, commercial, railroad and financial development of the South and Southwest as published in this Construction Department,

We issue every Business Day in the Year THE DAILY BULLETIN

The construction news as published in the Daily Bulletin is invaluable to all business people who want to keep in daily touch with the organization of business enterprises of all kinds throughout the whole South. Unlimited possibilities for the creation of business, for securing contract work, for the sale of machinery and supplies of all kinds, for bond buyers and others, are to be found through a close following up of the news in the Daily Bulletin.

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The subscription price is \$25.00 a year. Are you a subscriber to it, or an advertiser in it? If not, you are missing an opportunity for profitable business.

Cement, etc.—Henry Monk, 405 Seaboard Bank Bldg., Norfolk, Va., wants 350 barrels Portland cement; to pass United States Government standard specifications; to be delivered United States Naval Station, Guantanamo, Cuba; also 350 cubic yards gravel and 175 cubic yards sand, delivered same place.

Cement.—See "Wood-chemical Plant."

Coke Oven Plant.—Richard Lamb, C.E., 126 Liberty St., New York, writes to Manufacturers Record that he wants prices on silica brick, gantry crane and electrically-operated skip hoists; also apparatus to recover tar and sulphate of ammonia from gas, such as coolers, exhausters, tar and ammonia liquor pumps, saturators, centrifugals and stills.

Cotton-bag Machinery.—See "Paper-bag Machinery, etc."

Cotton Tape.—J. O. Borton, Marshallville, Ga., wants information and prices on spooled red cotton tape for tying asparagus bunches.

Crane.—Pennsylvania Equipment Co., West End Trust Bldg., Philadelphia, Pa., wants second-hand Browning locomotive crane, 15 tons capacity.

Crane.—See "Coke Oven Plant."

Creamery Supplies, etc.—McAllen Creamery Co., R. E. Horn, president, McAllen, Tex., wants prices on creamery and ice-cream supplies, including salt, color, acid (sulphuric), wrappers, cartons, shipping boxes, etc.

Cupolas.—Cameron Stove Co. (R. B. Car-

dozo to be addressed), 21st and Stockton Sts., Richmond, Va., wants prices on cupolas.

Cutlery.—See "Farm Implement."

Distilling Machinery.—See "Coke Oven Plant."

Distilling Machinery.—See "Wood-chemical Plant."

Drainage.—Bids received until 12 noon February 10 (postponed date) at office of Board of County Commissioners, C. A. Roberts, chairman, Starke, Fla., for excavation of about 300,000 cubic yards canals and ditches, draining about 17,280 acres in East Starke Drainage District, adjoining Starke; work in three parts, as shown on plans, and bids received on each part according to plans and specifications in office of Clerk of Circuit Court, Starke; certified check for \$300; bidders advised to personally inspect territory; W. T. Weeks, clerk.

Dredgeboat Equipment.—National Construction Co., 322 1/2 S. 19th St., Birmingham, Ala., is receiving bids as a whole or any part (except hull) on following: A frame, 40 feet across bottom out to out, 65-foot boom, 50-foot stiff legs, 30-foot mast, 16-foot double flange bull wheel; steel lattice work construction; working capacity, 22 tons; also on 125-horse-power skeleton hoisting engine, double cylinders, three-drum; 30-horse-power skeleton swinging engine, double cylinders, single drum; two 20 horse-power each spud engines, double cylinders, single drum; two 100 horse-power each marine boilers; to be placed on hull 88x46x6 feet 5 inches; state total weight of A frame, mast,

Electrical Machinery.—See "Wood-chemical Plant."

Electrical Machinery, etc.—Proposals received at Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until 10 A. M. February 4, and opened immediately thereafter, to furnish at Navy-yard, Norfolk, Va., quantity of naval supplies as follows: Schedule 5106, motors; schedule 5115, ventilating blowers. Applications for proposals should designate schedules desired by number. Blank proposals furnished upon application to navy pay office, Norfolk, Va., or to bureau. T. J. Cowie, Paymaster-General, U. S. N.

Electric-light Plant.—Munfordville Electric Light & Power Co., P. K. Hubbard, president, Munfordville, Ky., opens bids February 1 to erect electric-light plant; install 25-horse-power oil engine; J. O. Bright, engineer in charge.

Electro-therapeutic Equipment.—E. H. Cowan, corner 5th and Harrisburg Rd., Magnolia Park, Houston, Tex., wants prices on electro-therapeutic equipment and batteries.

Elevating Machinery.—See "Gravel and Sand Machinery."

Engines.—See "Dredgeboat Equipment."

Engine.—See "Electrical Machinery."

Engine and Boiler.—Arkansas Short Leaf Lumber Co., Pine Bluff, Ark., wants 24 or 26 by 42 to 48-inch stroke Corliss engine, and four 72x18 butt strap joint type boiler for 125 to 130 pounds pressure; second-hand.

Excavation, etc.—Bids received by Whitaker & Hill, engineers, Forsyth Bldg., Atlanta, Ga., to remove 1000 yards of dirt on Central of Georgia tracks and move sidetrack for 15 days.

Farm Implement.—J. O. Borton, Marshallville, Ga., wants prices on forked knives for cutting asparagus from the ground.

Felting.—J. H. Donnelly, Marlinton, W. Va., wants addresses of manufacturers of heavy felting suitable for horse-collar pads.

Fertilizer Machinery.—S. S. Williams, Norway, S. C., wants prices on fertilizer machinery for dry mixing plant, including mixer, clod breaker, screen, etc.; daily capacity, 75 to 100 tons of fertilizer.

Films.—S. Prager, Wilna, Russia, wants to correspond with view to leasing films from American manufacturer or trader of films for cinematograph.

Gas Engine.—S. E. Lasline, Enola, Ark., wants kerosene gas engine, about 15 horse-power.

Gas Producer Engine.—Geo. J. Adams, 39 South St., corner Old Slip, New York, wants 150-horse-power gas producer engine (Otto preferred).

Glass.—See "Building Materials."

Gravel.—Henry Monk, 405 Seaboard Bank Bldg., Norfolk, Va., wants 350 cubic yards gravel for delivery Guantanamo, Cuba. (See "Cement, etc.")

Gravel and Sand Machinery.—Columbus Brick Co., Columbus, Miss., wants machinery and screens for loading sand and gravel from pit to cars; elevator and screens for separating gravel from sand, and machinery to prepare gravel for roofing.

Heating Plant.—D. J. Cockerham & Sons, Elkin, N. C., wants prices on steam or hot-air heating plants.

Hoisting Equipment.—See "Dredgeboat Equipment."

Heating and Lighting Plant.—Commercial Building Co., A. L. Baker, president, Raleigh, N. C., wants central heating and lighting plant for two or more buildings; plant to be located in basement.

Hollow Tile, etc.—Clarence Cosby, Richmond, Va., wants addresses of manufacturers of hollow tile; also interested in green Spanish glazed tile for roofs.

Hose, Packing, etc.—Proposals received at office of General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 A. M. February 3, then opened in public, for furnishing hose, packing, rubber belting, wrought-steel pipe, valves, ball cocks and water-closet seats. Blanks and general information relating to this circular (No. 756) may be obtained from this office or offices of assistant purchasing agents, 24 State St., New York; 614 Whitney Central Bldg., New Orleans, and 1066 North Point St., San Francisco; also from U. S. Engineer offices in Seattle, Los Angeles, Baltimore, Philadelphia, Pittsburgh, Boston, Buffalo, Cleveland, Cincinnati, Chicago, St. Louis, Detroit, Milwaukee, St. Paul, Chattanooga, Louisville, Mobile and Galveston; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Commercial Club, Tacoma, Wash. F. C. Boggs, Major,

Corps of Engineers, U. S. A., General Purchasing Officer.

Iron Stairs.—See "Building Materials."

Leather.—S. Prager, Wilna, Russia, wants to correspond with American manufacturers of kid leather with view to agency.

Levee Construction.—Proposals received at office of Board of Commissioners, Caddo Levee District, Shreveport, La., until 12 noon March 5 for bank protection work in following reaches: Scott's Slough, approximate length of revetment, 2500 feet; deposit required, \$700; bond required, \$12,500; Rattling Slough, 2500 feet; deposit, \$700; bond, \$12,500; Havana, 2500 feet; deposit, \$700; bond, \$12,500; Corner Place, 2000 feet; deposit, \$600; bond, \$10,000; Fire Point, 2000 feet; deposit, \$600; bond, \$10,000; Silver Point, 2000 feet; deposit, \$600; bond, \$10,000; Twelve-Mile Bayou, 3000 feet; deposit, \$800; bond, \$15,000; Dixie, 5000 feet; deposit, \$600; bond, \$10,000; Lucas, 3000 feet; deposit, \$800; bond, \$15,000; Leonard, 2500 feet; deposit, \$700; bond, \$12,500; Long Point, 2000 feet; deposit, \$600; bond, \$10,000; Campo Bello, 2000 feet; deposit, \$600; bonds, \$10,000; proposals received on reaches separately or as whole; cash or certified check to amount of deposit; other information obtainable on application to State Board of Engineers, 213 New Orleans Court Bldg., New Orleans, La., or to undersigned; W. A. Kerley, secretary; J. M. Sentell, president.

Levee Construction.—Bids received until 2:30 P. M. January 17 by Levee Board, Clarksdale, Miss., for enlarging levee sections 69, 70 and 71, containing about 375,000 cubic yards and levee sections 13H to 18H, inclusive, containing about 850,000 cubic yards. Further information may be had by addressing T. G. Dabney, chief engineer.

Lighting Plant.—See "Heating and Lighting Plant."

Locomotive.—Jett Bros. Contracting Co., Mobile, Ala., will probably purchase narrow-gauge 10-ton locomotive.

Lumber.—See "Piping, etc., Bartlesville, Okla."

Lumber.—Proposals received at Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until 10 A. M. February 4, and opened immediately thereafter, to furnish at Navy-yard, Charleston, S. C., quantity of yellow pine. Applications for proposals should refer to schedule 5118. Blank proposals furnished upon application to navy pay office, Charleston, S. C., or to bureau. T. J. Cowie, Paymaster-General, U. S. N.

Machine Tools Plant.—St. Louis Machine Tool Co., 2007 S. Broadway, St. Louis, Mo., wants catalogues (for file) of appliances for machine tool manufacturing plant.

Mattress Machinery.—Geo. W. Speight, Jennings, La., wants to correspond with manufacturers of machinery to felt cotton for mattresses.

Metal Specialties.—S. Lillard, Jewell Junction, Iowa, wants to correspond with manufacturers who can make metal article 8x2 inches, do spot welding, plating, finish plack and ship in large quantities; assembly drawing furnished.

Naval Supplies.—Proposals received at Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until 10 A. M. February 4, and opened immediately thereafter, to furnish at Navy-yard, Washington, D. C., etc., a quantity of naval supplies as follows: Schedule 5107, motor and blower; schedule 5113, clinometers; schedule 5114, galvanized sheet steel, two conductor cable. Applications for proposals should designate schedules desired by number. Blank proposals furnished upon application to bureau. T. J. Cowie, Paymaster-General, U. S. N.

Novelty Manufacturers.—See "Metal Specialties."

Oils, etc.—S. Prager, Wilna, Russia, wants to correspond with American refiners or dealers in oils and greases; also paraffine wax; desires samples and prices of former; view to agency.

Planer.—Tar River Lumber Co., Rocky Mount, N. C., wants one two-side planer to take as little floor space as possible; when quoting state floor space required and detail description.

Paint Machinery, etc.—See "Wood-chemical Plant."

Paper-bag Machinery, etc.—Bankers' Bag Co., 77 Walnut St., Norfolk, Va., wants machinery to make paper bags and envelopes; also cloth bags.

Paving.—Proposals received by Board of Commissioners, Port of New Orleans, at 200 New Orleans Court Bldg., New Orleans, La., until 7:30 P. M. January 22 for paving with small granite blocks on concrete foundation of roadway on river front from Nuns St. to

Thalla St.; certified check for \$1000; plans, specifications, etc., on file in office of engineer, A. C. Bell, 260 New Orleans Court Bldg., by whom full sets will be furnished on deposit of \$15; William A. Kernaghan, president.

Paving, etc.—Proposals received by Board of Commissioners, John D. Kelley, City Secretary, Galveston, Tex., until noon January 23 for paving and constructing bulkheads and drains on 37th St. from south side of Avenue A to south side of Avenue B; will require about 184 square yards vitrified brick or wooden block pavement laid on six-inch concrete base, 204 cubic yards extra concrete, 776 linear feet concrete bulkhead, 73 linear feet concrete drain and 40 linear feet 30-inch vitrified pipe drain; plans and specifications furnished upon application to City Engineer, A. T. Dickey, City Hall Bldg.; certified check, payable to order of secretary, in sum of 5 per cent. of amount of bid; bond in sum of 50 per cent. of total contract price; V. E. Austin, commissioner.

Paving Materials.—O. M. Jones, Mayor, Gueydan, La., is interested in paving materials.

Paving.—Bids received by committee on public works, H. Gaillard, chairman, Jacksonville, Fla., until 3 P. M. February 10 for laying 98,826 square yards pavement on concrete on various streets; plans and specifications obtainable from chief clerk, Engineering Department, or by addressing L. D. Smoot, chief engineer; certified check for \$2500.

Paving, etc.—Bids received until January 16 by City Engineer, Charles E. Bolling, Richmond, Va., for constructing certain vitrified brick crossings and certain granolithic curbs and gutters in South Richmond; certified check for \$100; plans and specifications on file in City Engineer's office.

Paving.—Proposals received by Town Council, Clearwater, Fla., until 7:30 P. M. January 21 for street paving with vitrified brick and various asphalt and bitumen pavements; also storm sewers and combined curb and gutters; R. T. Daniel, Town Clerk.

Pipe.—See "Wood-chemical Plant."

Piping, etc.—Paul Oil & Gas Co., C. J. Bucy, secretary, Bartlesville, Okla., wants prices on tubing, casing and line pipe; use 2-inch, 3-inch and 6½-inch pipe; also wants prices on lumber.

Piping.—Proposals invited until noon January 23 by street and sewer committee for furnishing city of Lynchburg, Va., with No. 1 Ohio Valley salt glazed vitrified sewer pipe and branches, etc., until February 1, 1914; pipe to be delivered in any quantity in all sizes up to and including 24 inches at any point within corporate limits or immediate suburbs; bidders will give rate of discount from standard price-list; certified check for \$500; bond for \$3000; H. A. Shaner, City Engineer.

Punch and Shears.—D. L. Casey Machine Co., Springfield, O., wants splitting shears, capacity one-half-inch plate; also punch to punch three-quarter hole in one-half-inch plate; second-hand preferred.

Pumps, etc.—G. T. Galyon Company, Knoxville, Tenn., may want some drills and one or two pumps; for sewer construction.

Rails.—Jett Bros. Contracting Co., Mobile, Ala., will probably purchase five or six miles second-hand relay rails.

Rails.—See "Wood-chemical Plant."

Refrigerating Machinery.—George J. Adams, 39 South St., Cor. Old Slip, New York, wants 50-ton Frick or Vilter refrigerating machine.

Reservoir.—Baton Rouge Water-Works Co., Baton Rouge, La., receives bids until noon February 20 to construct 1,000,000-gallon concrete reservoir; 59x120x20 feet; work will require following amount of materials: 755 cubic yards crushed stone or gravel, 363 cubic yards sand, 1292 barrels Portland cement, 130 barrels hydrated lime, 208-960 pounds steel bars, 12 ventilators, two manhole covers, two 10-inch pipe collars, four 16-inch pipe collars, four 10-inch pipe hangers, two valve stem hangers and 30 ½-inch round rods, 3 feet 4 inches long; bids received first on reservoir complete, including all material and labor; second, with cement, sand, gravel or stone and reinforcement furnished by water company; plans and specifications may be secured by addressing water-works company and enclosing \$5; John H. Wood, secretary and manager; Alvord & Burdick, engineers, Chicago, Ill.

Road Construction.—Good Roads Commission, Supervisors' District No. 1, Monroe county, receives proposals at office of chancery clerk, Aberdeen, Miss., until 2 P. M. February 3, 1913, for construction of about 22 miles road; work and material to include

102,568 cubic yards earth, 2005 feet 18, 21, 30, 36 and 48-inch pipe, 125 cubic yards concrete, clearing and grubbing; plans, specifications and profiles at clerk's office, Aberdeen, or at office of First District Good Roads Commission, A. B. Cowden, secretary, Amory, Miss.; certified check for \$1500.

Road Construction.—Proposals addressed to W. F. Lagrone, secretary, received by Highway Commissioners of Supervisors' District No. 2, Clay county, Mississippi, until 2 P. M. February 5 for work of permanently improving about 17 miles of public road in said district; Tishomingo gravel or novaculite will be used for finishing surface, and is to be compact with power roller; alternate bids on sandy-clay surfacing will be taken; concrete will be used in the construction of culverts and small bridges; I-beams and concrete bridges for larger openings; for small drains vitrified pipe; bids invited for entire work or any division thereof, consisting of bridge and culvert work, grading, surfacing and graveling, everything to complete roadway and furnishing material and tools necessary to complete said roads; plans, profiles and specifications are on file in office of chancery clerk of Clay county and in office of C. L. Wood, highway engineer, Columbus, Miss., and with W. F. Lagrone, secretary of Highway Commissioners, West Point, Miss.; blank forms for proposals furnished upon application by engineer or secretary on deposit of \$5; certified check for \$1000.

Road Construction.—Proposals addressed to E. H. Kennedy, secretary, received by Highway Commissioners of Supervisors' District No. 3, Clay county, Mississippi, until 2 P. M. February 5 for work of permanently improving about nine miles of public road in said district; Tishomingo gravel or novaculite will be used for finishing surface, and is to be compact with power roller; alternate bids on sandy-clay will be taken; concrete will be used in construction of culverts and small bridges; I-beams and concrete bridges and for larger openings; for small drains vitrified pipe; bids are invited for doing entire work or any division thereof, consisting of bridge and culvert work, grading, surfacing and graveling, everything to complete roadway and furnishing all material and tools necessary to complete said roads; plans, profiles and specifications on file in office of chancery clerk of Clay county and in office of C. L. Wood, highway engineer, Columbus, Miss. and with E. H. Kennedy, secretary of Highway Commissioners, West Point, Miss.; blank forms for proposals furnished upon application by engineer or secretary on deposit of \$5; certified check for \$1000.

Road Construction.—Bids received by Board of Revenue of Montgomery County, Montgomery, Ala., until noon January 20 for graveling about six miles of Carter Hill Rd. from Hayneville Rd. to Sandy Creek; specifications at office of County Engineer, Thos. H. Edwards.

Road Roller.—Richard Lamb, C.E., 136 Liberty St., New York, wants four or five-ton reversible horse roller.

Roofing.—See "Hollow Tile, etc."

Roofing.—D. J. Cockerham & Sons, Elkin, N. C., will consider prices on roofing other than tin.

Rope and Twine Machinery.—Geo. W. Speight, Jennings, La., wants to correspond with manufacturers of rope and twine machinery.

Sand.—Henry Monk, 405 Seaboard Bank Bldg., Norfolk, Va., wants 175 cubic yards sand for delivery Guantanamo, Cuba. (See "Cement," etc.)

Sand.—U. S. Engineer Office, Dallas, Tex. Proposals for furnishing sand for guard lock, Sabine-Neches Canal, Texas, received here until 12 M. February 6, then publicly opened. Information upon application. T. H. Jackson, Major, Engineers.

Screens.—See "Gravel and Sand Machinery."

Sewers.—See "Paving, etc."

Sewer Construction.—See "Paving, Clearwater, Fla."

Smokestacks.—Edenton Cotton Mills, Edenton, N. C., wants to correspond with constructors of brick smokestacks or chimneys.

Shoe Findings.—Jaramillo Y. Baldrich, Casilla, 249, Santiago, Chile, wants to correspond with American manufacturers (with view to agency) of shoe findings and machinery; desires catalogues, prices, discounts, etc., relative to leathers, soles, thread, linings, laces, eyelets, etc.; also wants specifications on foot covering suitable for importation.

Skidding Machine.—D. T. McKeithan Lumber Co., Lumber, S. C., wants informa-

tion and prices on second-hand Lidge-wood overhead skidding machine; to have two drums, each leading end and skidding end, with rapid receding friction gears.

Steel Rods, etc.—Proposals received at Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until 10 A. M. January 28, and opened immediately thereafter, to furnish at Navy-yard, Norfolk, Va., quantity of lumber and steel rods. Applications for proposals should refer to schedule 5111. Blank proposals furnished upon application to navy pay office, Norfolk, Va., or to bureau. T. J. Cowie, Paymaster-General.

Structural Steel.—See "Wood-chemical Plant."

Textile Machinery.—See "Rope and Twine Machinery."

Tower and Tank.—City of Bryan, Tex., opens bids January 30 on water tower; ask bids on tower of 100,000 gallons capacity, 120 feet to bottom of tank, height over all not to exceed 145 feet; or tower of 150,000 gallons capacity, 160 feet to bottom of tank, height over all not above 145 feet; want bids basis erected on foundations furnished by city. Address Geo. Wecker, City Secretary.

Tube Mill.—Tamms Silica Co., Tamms, Ill., wants prices on new or second-hand tube or pebble mill; please quote size of mill and prices.

Water-works.—A. D. Smith, Grand Coteau, La., wants information on installation of municipal water-works system, including cost of engines, pumps, towers and tanks, etc.

Well-drilling Materials.—See "Piping, etc., Bartlesville, Okla."

Well-drilling.—Avondale Heights Co., 809 City National Bank Bldg., Paducah, Ky., wants to correspond relative to sinking deep well.

Wire Glass, Metal Frames, etc.—Cameron Stove Co. (R. B. Cardozo to be addressed), 21st and Stockton Sts., Richmond, Va., wants prices on wire glass metal frames.

Wiring.—Department of Interior, Washington, D. C. Proposals received until 2 P. M. January 25, then opened, for rewiring rooms, top floor, in Pension Office Bldg., Washington, in accordance with specifications, copies of which are obtainable on application to chief clerk of this department. Address proposals to Secretary of Interior and endorse upon envelope "Proposals for rewiring rooms, top floor, Pension Office Bldg." Lewis C. Laylin, Assistant Secretary.

Woodworking Machinery.—Lamon Bros., Cleveland, Tenn., want second-hand wagon and carriage works equipment, including jointer, band saw, planer, boring and mortising machine.

Wood-chemical Plant.—Central Construction Co., 713 Ohio Bldg., Toledo, O., wants 36 large steel retorts, cast-iron pipe 5½ inches and smaller, boilers, stills, steel tanks, structural steel, corrugated sheeting and roofing, copper pipes, Portland cement, brick, fire-brick, paint and stain machinery, dynamos, gasholders and gas meters. (Central Construction Co. recently noted as receiving contract to construct wood-chemical plant at Valdosta, Ga., for American Chemical Co. of Toledo.)

To Complete Mathis Dam.

B. H. Hardaway of the Hardaway Contracting Co., Columbus, Ga., wires the MANUFACTURERS RECORD as follows:

"Power on the Tallulah River is being developed by the Georgia Railway & Power Co. of Atlanta. A dam 115 feet high and a power-house at Tallulah Falls were contracted to the Hardaway Contracting Co. of Columbus, Ga., and have been built. These, in connection with a tunnel a mile long, will develop a 600-foot head and 90,000 horsepower, and transmission lines have been built as far as Newnan, Ga., about 215 miles distant. As a necessary part of the above development a storage dam is required on the same river at Mathis Station, about six miles above Tallulah Falls. This dam is 65 feet high, and has a small power-house of its own, and creates quite a lake. The contract was let in the spring of 1912, to be finished in February, 1913. For some reason, unknown to writer, work was stopped on January 3, and the Georgia Railway & Power Co., claiming that the work had been abandoned, made a contract with the Hardaway Contracting Co. of Columbus, Ga., to build the dam and power-house.

About one-fourth of the masonry required has been placed. The work will be pushed rapidly."

For By-Product Coke Plant.

Richard Lamb, civil engineer, 136 Liberty street, New York, writes to the MANUFACTURERS RECORD as follows:

"I am in the market for a four or five-ton reversible horse roller. I am also making plans for a by-product coke oven plant to be built in the Metropolitan district in New York, and will require silica brick, gantry crane, electrically-operated skip hoists and apparatus for the recovery of tar and sulphate from the gas, such as coolers, exhausters, tar and ammonia liquor pumps, saturators, centrifugals and stills."

FINANCIAL NEWS

Review of the Baltimore Market.

Office MANUFACTURERS RECORD,

Baltimore, Md., January 15.

The Baltimore stock market has been quite active during the past week, especially for the stocks and bonds of the Consolidated Gas, Electric Light & Power Co., which were affected by a pending decision as to rates by the Public Service Commission. Following the announcement of the new rates there was a rapid advance in these securities. United Railways stock was slightly affected.

In the trading Consolidated Gas, Electric Light & Power sold from 113 down to 105, but recovered to 114½, and the preferred shares dropped from 116 to 110, recovering to 117½, the 4½ per cent. bonds rose from 87½ to 89 and the notes sold at 100 to 99½; Consolidated Gas 5s, 107½; do. 4½s, 95; United Railways common, 24 to 23, recovering to 24½; do. income bonds, 62½ to 62, recovering to the former price; do. funding 5s, 86½ to 88; do. notes, 102; do. 4s, 83½ to 85; United Electric Light & Power 4½s, 92½ to 93; Seaboard Air Line common, 19 to 20½, reacting to 19; do. adjustment 5s, 76½; Mt. Vernon-Woodberry Cotton Duck 5s, 74½ to 75½, reacting to 74½; G. B. S. common, 3.

Bank stock sold as follows: Bank of Baltimore, 165 to 164; Merchants and Mechanics, 31¼ to 31½, with last sale at 31½; Exchange, 151; Bank of Commerce, 31½; Old Town, 13¾; Citizens', 42¾; Howard, 14½; Farmers and Merchants', 50.

Mercantile Trust sold at 154½ to 155; United States Fidelity, 185 to 184; American Bonding, 90 to 90½; Fidelity & Deposit, 174 to 175½, with last sale at 171; Maryland Casualty, 105½ to 103; Continental Trust, 220 to 219; Fidelity Trust, 240; Baltimore Trust, 158½ to 155; Munsey Trust, 104 to 100½, with last sale at 101½; Colonial Trust, 29; Maryland Trust common, 122½ to 123.

Other securities were traded in thus: Baltimore City 4s, 195½ to 97; do. do. 196½, 96½; do. do. 195½, 96½; do. 5s, 191½ to 91½; do. 3½s, 1930, 91½; do. do. 1980, 82½; do. 4s, 1920, 98; do. do. 1957, 97; City & Suburban (Baltimore) 5s, 103½; Coal & Coke Railway 5s, 95; Houston Oil common, trust certificates, 19 to 20, reacting to 18, with last sale at 18¾; do. preferred, trust certificates, 68 to 66; do. dividend certificates, 83; Knoxville Traction 5s, 104½; Norfolk & Portsmouth Traction 5s, 91½ to 92; Virginia new 3s, 85½; Atlantic Coast Line rights, 3½ to 3; Davidson Chemical 6s, 100; New Orleans, Mobile & Chicago 5s, 86½ to 87; Atlantic Coast Line stock, 132½; Consolidation Coal, 108½ to 105½, reacting to 103; Charleston Consolidated Electric 5s, 97½ to 97½; Danville Traction & Power 5s, 93¾; Fairmont & Clarksburg Traction 5s, 101; Potomac Valley 5s, 107½; Virginia Railway & Power 5s, 95; Atlantic Coast Line Railroad 4s, certificates, 84¾; Baltimore Electric 5s, stamped, 90½ to 97; Maryland Electric 5s, 97½ to 97½; Pennsylvania Water & Power common, 67½ to 67; Georgia, Carolina & Northern 5s, 105¾ to 105¾; Northern Central Railway stock, 122 to 122½; Consolidation Coal refunding 4½s, 93¾ to 93; Milwaukee refunding 4½s, 94; Baltimore Electric preferred, 43 to 44; Portland Railway 5s, 101 to 101½; Georgia Southern & Florida 5s, 105½ to 106; Atlantic Coast Line of Connecticut 5-20s, 90½; Newport News & Old Point

5s, 98½; Detroit United 4½s, 74¾; Roland Park Water 5s, 98; Washington, Baltimore & Annapolis 5s, 88; Georgia Pacific 1st, 110; Macon Railway & Light 5s, 98¾; Atlanta Consolidated Street Railway 5s, 104¾; Chicago Railways 5s, 100; Cleveland Railway 5s, 101¾; Maryland 4s, 1926, 98; Baltimore Traction (North Baltimore Division) 5s, 108¾; Baltimore & Ohio rights, ½; Lynchburg 4½s, 1927, 98¾; Norfolk Railway & Light 5s, 100¾; Norfolk & Atlantic Terminal 5s, 93; Georgia & Alabama Consolidated 5s, 104¾; International & Great Northern Corporation, 65; New Orleans-Great Northern 5s, 66; Atlantic Coast Line convertible debenture 4s, 90¾ to 99; Fairmont Coal 5s, 96¾.

SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended January 15, 1913.

Railroad Stocks.	Par.	Bid.	Asked.
At. Coast of Conn.	100	260	264
Charleston Consol.	50	44	...
Ga. Sou. & Fla. 1st Pfd.	100	93	...
Norfolk Railway & Light	25	25	26¼
Seaboard Com.	100	19½	...
Seaboard Pfd.	100	47	...
United Rys. & Elec. Co.	50	24	24½

Bank Stocks.	Par.	Bid.	Asked.
Bank of Baltimore	100	165	...
Bank of Commerce	15	31	31½
Citizens'	100	215	225
Drovers & Mechanics'	100	161½	...
Exchange	100	161½	...
Farmers & Merchants'	40	51	...
First National	100	144	146
German	100	105	...
Howard	10	14	...
Marine	30	43	...
Maryland	20	21½	...
Merchants & Mechanics'	10	31¼	31½
Western	20	39	39½

Trust, Fidelity and Casualty Stocks.	Par.	Bid.	Asked.
American Bonding	25	92	...
Baltimore Trust	100	158	...
Colonial Trust	50	28	29½
Continental Trust	100	218½	220
Fidelity & Deposit	50	171	177
Fidelity Trust	100	237½	241
Manufacturers' Finance	100	150	165
Maryland Casualty	25	103	105
Maryland Trust	100	121	123
Maryland Trust Pfd.	100	125	...
Mor. Trust & Dep.	50	155	156
Munsey Trust	100	109½	102
Security Stor.	100	154½	...
Union Trust	50	65	69
U. S. Fidelity & Guar.	100	185	195

Miscellaneous Stocks.	Par.	Bid.	Asked.
Baltimore Brick	100	1	...
Baltimore Electric Pfd.	100	43¾	46
Canton Co. of Baltimore	100	136	...
Con. Gas, Elec. Lt. & P. Com.	117	117	...
Con. Gas, Elec. Lt. & P. Pfd.	100	116¾	117½
Consolidation Coal	100	102	103
Mer. & Min. Trans. Co. V. T.	100	65	70

Railroad Bonds.	Par.	Bid.	Asked.
Alabama Midland 5s	106½	107	...
At. Coast Con. Deben. 4s	98¾	99¼	...
At. Coast Con. 4s, 5-20s	90½	...	...
At. Coast Con. 5s	102¾	...	...
At. Coast S. C. 4s	104	96¼	...
Balto. & Harris, 5s	104	104½	...
Brunswick & Western 4s	92½	93½	...
Carolina Central 4s	91½	...	...
Coal & Coke Railway 5s	95	96	...
Georgia & Alabama 5s	104½	105½	...
Ga., Car. & North. 1st 5s	106½	106¾	...
Georgia Pacific 1st 6s	110	110¼	...
Ga. South. & Fla. 1st 5s	106½	105½	...
Macon, Dublin & Savannah 5s	99	99½	...
Maryland, Del. & C. 4½s	92½	...	...
New Orleans, M. & C. 5s	86½	87	...
Potomac Valley 1st 5s	104½	107½	...
Sav. Fla. & West. 5s	101½	103½	...
Seaboard Adjustment 5s	75½	76½	...
Seaboard & Roanoke 5s	101	105½	...
Suffolk & Carolina 5s	101	105	...
Virginia Midland 5th 5s	104½	...	...
Western N. C. Con. 6s	95	102¼	...
Wash., Balto. & Annap. 5s	87½	...	...

Street Railway Bonds.	Par.	Bid.	Asked.
Anacostia & Potomac 5s	99½	99½	...
Anacostia & Potomac 5s, Gtd.	100½	100½	...
Atlanta Con. Street Railway 5s	104½	105	...
Balto., Sp. Pl. & C. 4½s	95	96	...
Charleston City Railway 5s	103½	104	...
Charleston Con. Elec. 5s	97½	98	...
City & Suburban 5s (Balto.)	103½	...	...
Danville Traction 5s	93¾	...	...
Fairmont & Clarksburg Trac. 5s	101	101½	...
Knoxville Traction 5s	104½	104½	...
Lexington Railway 1st 5s	94½	...	...
Macon Railway & Light 5s	98½	99	...
Maryland Electric Railways 5s	97½	97¾	...
Memphis Street Railway 5s	104½	106½	...
Metropolitan 5s (Wash.)	97½	99	...
Newport News & Old Point 5s	91	91½	...
Norfolk & Portsmouth Trac. 5s	100	100½	...
Norfolk Railway & Light 5s	85	85½	...
United Railways 1st 4s	62½	62½	...
United Railways Income 4s	102	103	...
United Railways Notes	102	103	...
Virginia Ry. & P. 5s	94½	95	...

Miscellaneous Bonds.	Par.	Bid.	Asked.
Baltimore Brick 5s	97½	98	...
Baltimore Electric 5s, Stp.	107½	107½	...
Consolidated Gas 4½s	94½	95½	...
Consolidated Gas 4½s	89	89½	...
Con. Gas, Elec. Lt. & P. 4½s	93½	100	...
Consolidation Coal Refdg. 5s	92	91½	...
Fairmont Coal 1st 5s	95½	96¼	...
G. R. S. Brewing 1st 4s	46	46½	...
Mt. Vernon-Woodby Cot. Duck 5s	74½	75	...
Penna. Water & P. 5s	92½	92½	...
Roland Park Water 5s	97½	...	...
Roland Park Water & Electric 5s	101	...	...
United Elec. Lt. & P. 4½s	92½	93½	...

Savings Bank Report.

The German Savings Bank of Baltimore in its annual report as of December

31, 1912, shows funds on hand \$4,720,536.78, as compared with \$4,543,995.60 a year ago. Its total operations amounted to more than \$6,900,000. The receipts from depositors during the year were \$2,130,496.90, and it paid to depositors (including interest) \$2,137,788.12. It owns bonds and stocks (held at or under their par value) amounting to \$3,372,636.18; loans on mortgages, \$802,508.46; loans on collateral, \$273,270; cash on hand, \$194,567.98. The amount due depositors (including 3½ per cent. interest for the year) is \$4,503,590.18, and the guarantee fund and undivided surplus is \$216,946.60. The number of accounts open is 8175, an increase of 96. Charles Spilman is president, and William Spilman, treasurer.

SOUTHERN COTTON-MILL STOCKS.

Quotations Furnished by William S. Glenn, Broker, Spartanburg, S. C., for Week Ending January 13.

Abbeville Cotton Mills (S. C.)	Bid.	Asked.
Aiken Mfg. Co. (S. C.)	70	75
American Spinning Co. (S. C.)	162	...
Anderson Cotton Mills (S. C.)	48	...
Anderson Cot. Mills (S. C.) Pfd.	100	...
Aradia Mills (S. C.)	90	...
Arkwright Cotton Mills (S. C.)	99	100
Belton Mills (S. C.)	100	110
Brandon Mills (S. C.)	90	...
Brogan Mills (S. C.)	60	...
Chilquola Mfg. Co. (S. C.)	100	...
Clifton Mfg. Co. (S. C.) Pfd.	97	100
Clinton Cotton Mills (S. C.)	120	...
Courtney Mfg. Co. (S. C.)	93	...
Dallas Mfg. Co. (S. C.)	99	...
D. E. Converse Co. (S. C.)	75	...
Drayton Mills (S. C.)	90	...
Eagle & Phenix Mills (Ga.)	106	...
Easley Cotton Mills (S. C.)	162	175
Enoree Mfg. Co. (S. C.)	25	62
Enoree Mfg. Co. (S. C.) Pfd.	85	100
Gaffney Mfg. Co. (S. C.)	72	75
Gainesville Cotton Mills (Ga.)	72	80
Glenwood Cotton Mills (S. C.)	100	...
Graniteville Mfg. Co. (S. C.)	135	145
Greenwood Cotton Mills (S. C.)	57	69
Grendel Mills (S. C.)	90	100
Hartsfield Cotton Mill (S. C.)	160	...
Hennietta Mills (N. C.)	160	175
Inman Mills (S. C.)	100	100
King Mfg. Co. J. P. (Ga.)	89	85
Lancaster Cotton Mills (S. C.)	130	100
Lancaster Cot. Mills (S. C.) Pfd.	97	100
Langley Mfg. Co. (S. C.)	97	...
Laurens Mills (S. C.)	125	...
Limestone Mills (S. C.)	155	160
Lockhart Mills (S. C.)	90	90
Lockhart Mills (S. C.) Pfd.	90	95
Loray Cotton Mills (N. C.) Pfd.	90	90
Mariboro Cotton Mills (S. C.)	75	...
Mills Mfg. Co. (S. C.)	90	102
Molokan Mills (S. C.)	102	...
Monarch Mills (S. C.)	100	...
Monarch Cotton Mills (S. C.)	105	...
Newberry Cotton Mills (S. C.)	125	130
Ninety-Six Cotton Mills (S. C.)	130	150
Norris Cotton Mills (S. C.)	115	...
Orr Cotton Mills (S. C.)	90	93
Pacolet Mfg. Co. (S. C.)	94	...
Pacolet Mfg. Co. (S. C.) Pfd.	95	100
Parker Common	29	...
Parker Pfd.	63	...
Pelzer Mfg. Co. (S. C.)	120	...
Poe Mfg. Co., F. W. (S. C.)	102	...
Saxon Mills (S. C.)	130	...
Spartan Mills (S. C.)	110	125
Truett Mfg. Co. (Ga.)	130	130
Tucupau Mills (S. C.)	300	350
Union-Buffalo (S. C.) 1st Pfd.	60	...
Union-Buffalo (S. C.) 2d Pfd.	15	...
Victor Mfg. Co. (S. C.)	119	115
Warren Mfg. Co. (S. C.)	80	90
Warren Mfg. Co. (S. C.) Pfd.	100	105
Washington Mills (Va.)	28	...
Washington Mills (Va.) Pfd.	106	110
Watts Mills (S. C.)	70	...
Whitney Mfg. Co. (S. C.)	110	...
Williamson Mills (S. C.)	120	125
Wisconsin Mills (N. C.)	135	...
Woodruff Cotton Mills (S. C.)	95	100
Woodside Cotton Mills (S. C.)	100	...

FINANCIAL CORPORATIONS.

Ala., Arlton.—Official: The People's Bank chartered and incorporated; capital \$15,000. Directors: E. E. Paulk, president; J. F. Richardson, vice-president; D. A. Walker, Jeff. J. Dean, P. W. Bailey, H. L. Richardson, Dr. E. L. M. Pruitt, S. B. Jones and R. L. Hutto. B. I. Jackson is cashier. Business began January 2.

Ala., Birmingham.—The Alabama Loan & Investment Co. is reported to have filed articles of incorporation; capital \$200; E. Reager, president and general manager; J. G. Kent, vice-president, and G. A. Allison, secretary-treasurer.

Ala., Decatur.—The Bank of Commerce, capital \$250,000, is reported incorporated by Col. C. C. Harris, Judge W. H. Simpson, Mayor Henry A. Skeggs, R. G. Cortner, Dr. J. L. Gunter, John L. Brock of Decatur; W. R. Hutton, Huntsville, Ala.; J. L. Hutton, Columbia, Tenn.; W. H. Weakley, Florence, Ala.; John R. Weakley, Eugene, Ala.; W. C. Hamilton, W. W. Crawford, H. L. Badham, all of Birmingham, Ala. C. C. Harris will be president and W. B. Shackelford cashier. Business is expected to begin about February 15.

Ala., Greenville.—The First Mortgage & Loan Co., authorized capital \$50,000, with \$25,000 paid in, is reported incorporated.

Ala., Talladega.—Official: The Talladega Insurance & Investment Co. incorporated; capital \$10,000. Directors: H. F. McElderry, president; E. Grace Jamison, secretary and treasurer, and H. L. McElderry. Business began January 1. This succeeds the two firms of Stone & Henkel and McLane & McElderry.

Ark., Viola.—A new bank is reported organized with Elder W. H. Bawlings president and Orvis Sigler cashier.

Fla., Gainesville.—Reported chartered: Florida National Bank of Gainesville; capital \$150,000; J. J. Haymans, president; J. M. Fennell, cashier. This is a conversion of the Florida Bank of Gainesville.

Fla., Jacksonville.—Official: The United States Trust & Savings Bank incorporated; capital \$50,000. Organizers: W. M. Tupper, J. J. Upchurch, W. M. Ball, J. J. Logan and Walter Mucklow.

Ga., Claxton.—The First National Bank of Claxton, to succeed the Merchants & Farmers' Bank of Claxton, is reported being organized; capital \$25,000. Organizers, A. L. Tipples, V. Overstreet, A. L. Delvach and M. H. Glison.

Ga., Macon.—Stetson & Rodgers are reported to have incorporated to act as agents for fire-insurance companies; capital \$1500, with privilege of increasing to \$10,000; petitioners, James D. Stetson and L. J. Smith.

Ky., Louisville.—The permanent organization of the Great Southern Fire Insurance Co. is reported completed by election of the following officers: William H. Cox, president; John W. Green, vice-president; Robert G. Evans, vice-president; T. M. Gilmore, vice-president; W. J. Ruby, secretary and assistant treasurer; A. G. Whitely, treasurer, and Hill Spalding, assistant secretary; executive, A. G. Whitely, W. J. Ruby, Charles W. Stoecker, C. H. Berryman, Lester Witherspoon and William H. Cox; finance, William H. Cox, Frank Fisher, J. D. Wilson, John W. Green, R. G. Evans and H. T. Asher; insurance, W. H. Cox, T. M. Gilmore, D. C. Amos, U. G. Saunders and C. M. Simrall. Business is expected to begin soon.

La., Morgan City.—The People's State and Savings Bank, capital \$40,000, is reported to have begun business. Oscar Zenor is president; Charles A. Bibbins, cashier, and H. R. Fluery, assistant cashier.

Md., Baltimore.—The Munsey Trust Co., recently chartered with \$100,000 capital, has completed its organization by electing the following officers: Frank Munsey, chairman; Eugene Norton, president; R. Lancaster Williams and Ernest Roberts, vice-presidents; Elliott H. Worthington, treasurer; D. Stewart Ridgely and Charles Fisher, assistant treasurers, and William M. Baker, secretary; directors, Frank A. Munsey, Eugene L. Norton, R. Lancaster Williams, Elmore B. Jeffrey, J. L. Alcock, Stuart Oliver, Jacob France, T. Rowland Thomas, George R. Gaither, A. R. L. Dohme, Frank B. Dancy, J. S. Armstrong, W. H. Cloud, H. F. Meserve. Business is to begin January 17.

Md., Baltimore.—The Justice Loan and Building Association of Baltimore City incorporated; capital \$100,000. Incorporators: Jacob Labovitz, Rebecca Labovitz, Charles Greenblatt, Abraham S. Shpritz and Mary Shpritz.

Md., Liberty.—James M. Sappington and B. F. Hammaker are reported organizing a new bank; capital to be \$10,000, with privilege of increasing to \$25,000.

Miss., Hattiesburg.—Official: The Hub Insurance Agency incorporated; capital \$10,000; directors, J. E. Davis, president; C. O. Eure, vice-president; F. J. Duke, secretary-treasurer, and P. B. Johnson. Business is to begin January 14.

Miss., Summit.—The Progressive National Bank of Summit is reported being organized; capital \$25,000; J. B. Enos, J. T. Covington, J. Hart, R. H. Cain, J. T. Lilly and N. P. Bonney, directors; E. M. Cain, correspondent, Summit, Miss.

Mo., Springfield.—Official: The State Savings Bank of Springfield incorporated; capital \$100,000; E. N. Ferguson, president; J. H. Keet, active vice-president; E. C. Jones, vice-president; J. L. Hine, cashier, and F. H. Wright, assistant cashier; directors and stockholders, E. N. Ferguson, L. W. Seaman, Edgar P. Mann, C. A. Clement, M. D. Lightfoot, Louis S. Meyer, J. L. Hines, James H. Keet, Joel H. Roundtree and Milton C. Baker.

N. C., Charlotte.—The Craig-Little Realty & Insurance Co., authorized capital \$50,000,

[For Additional Financial News, See Pages 80, 81 and 82.]

Merchants-Mechanics National Bank

South and Water Sts., BALTIMORE, MD.

DOUGLAS H. THOMAS, President
JNO. B. RAMSAY, V.-P. and Chm. Bd. of Dir.
WM. INGLE, Vice-President.
JOHN B. H. DUNN, Cashier.Capital \$2,000,000 Deposits \$21,670,000
Surplus and Profits \$2,175,000

Accounts of Banks, Bankers, Corporations and Individuals solicited.

We invite correspondence.

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Surplus and Undivided Profits - \$40,000A general banking business transacted.
Special attention given to collections.**INVESTMENT
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Cotton Mill Stock a Specialty

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J. ERNEST SMITH, V.-Pres. and Gen. Counsel.

WM. G. TAYLOR, Treasurer.

HARRY W. DAVIS, Secretary.

W. W. PUSEY, 2d Title and Real Estate Officer.

H. B. Wilcox, President Blanchard Randall, V.-Pres.
Wm. S. Hammond, Cashier
Saml. W. Tschudi, A. Cash. R. E. Bolling, A. Cash.**The First National Bank**
17 South St., Baltimore, Md.Capital - - - - - \$1,000,000
Surplus and Net Profits - - - 400,000
Deposits - - - - - 6,500,000

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**The National Exchange Bank
OF BALTIMORE, MD.**

Hopkins Place, German and Liberty Streets

Capital, \$1,000,000

July 15th, 1908, Surplus and Profits, \$671,631.60

OFFICERSWALDO NEWCOMER, President.
SUMMERFIELD BALDWIN, Vice-Pres.
R. VINTON LANSDALE, Cashier.
C. G. MORGAN, Asst. Cashier.

Accounts of Mercantile Firms, Corporations, Banks Bankers and Individuals invited.

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OF MARYLAND

Home Office, - - BALTIMORE, MD.

Total Assets Dec. 31, 1911,

\$8,133,000.57

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DEALT IN**F. J. LISMAN & CO.**

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JOHN KÜCHLER, C. P. A., Vice-President.ELMER L. HATTER, C. P. A., Treasurer
ERNEST E. WOODEN, C. P. A., Secretary**BALTIMORE AUDIT COMPANY**

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Port of Savannah

**Mercantile Trust and Deposit Co.
OF BALTIMORE****RESOURCES.**

Baltimore City Stocks.....	\$2,554,847.47
Other Stocks and Bonds.....	3,453,771.33
Loans on Approved Collateral:	
Time.....	\$1,714,567.43
Call.....	3,707,265.26
Office Building and Lot.....	5,421,832.69
Unsettled Open Bond Accounts, etc. (Secured).....	390,000.00
Cash in Hand and in Banks.....	168,775.18
	1,836,645.91
	\$13,815,871.64

LIABILITIES.

Capital Stock.....	\$1,500,000.00
Surplus.....	2,700,000.00
Undivided Profits.....	477,220.86
Deposits:	
Subject to check.....	\$6,545,026.16
Time.....	2,340,836.80
In Trust.....	216,509.19
	\$9,102,372.15
Interest, &c.....	6,278.67
	\$13,815,871.64

Statement December 31, 1912.

is reported incorporated by J. P. Little, A. G. Craig and Alice W. Craig.

N. C., Charlotte.—The Home Building and Loan Association is chartered. Incorporators: W. C. Dowd, H. C. Dotger, J. V. Simms, J. S. Clifford, J. P. Lucas, J. W. Barry, J. T. A. Lawing, A. W. Burch and M. J. O'Neill. The offices are at No. 302 Commercial Bank Bldg. Applications for stock will be received Saturday morning from January 11 until January 18, inclusive.

N. C., Goldsboro.—A new bank is reported being organized by R. C. Strong of Kingston, J. M. Kyle of Wilmington and Jas. L. Edgerton of Goldsboro. The capital is to be \$150,000 or \$200,000, and offices will be in the Borden Building, corner Walnut and West Center Sts.

N. C., Warsaw.—The Citizens' National Bank, capital \$25,000, is reported being organized; A. F. Williams, L. C. Carlton, G. G. Burt and J. E. Williams, directors.

Okla., Heavener.—The Heavener Building & Loan Co., capital \$50,000, is reported incorporated by O. J. M. Brewer, James Murdock, S. R. Wilson, Grover Flanagan, Oliver Layne, William Wier, I. P. Clark, R. E. Campbell, Ray Cooper, all of Heavener, Okla.

Okla., Pawhuska.—The Osage County Abstract Co., capital \$2000, is reported incorporated by A. M. Wilbern, W. G. Wilbern and C. T. Rice, all of Pawhuska, Okla.

Okla., Purcell.—The Purcell Abstract Co., capital \$2000, is reported incorporated by W. H. Woods, L. W. Kennedy of Purcell, and J. B. Dudley of Norman, Okla.

Okla., Snyder.—Reported chartered: The Kiowa National Bank; capital \$25,000. A. F. Kee, president, and J. B. Hines, cashier. This succeeds the Kiowa County Bank of Snyder.

Okla., Tecumseh.—Official: The Tecumseh National Bank chartered; capital \$25,000; surplus \$2500; E. L. Rosebush, president; D. W. Spence and T. D. Smith, vice-presidents; M. H. Wagner, cashier. Business began December 31.

Okla., Wayne.—The First State Bank of Wayne incorporated; capital \$15,000. Incorporators: C. W. Hughes, Leo Hughes and G. W. Thompson of Wayne.

S. C., Charleston.—The Charleston Fidelity Corporation is reported to have been granted a commission; capital \$75,000; petitioners, T. T. Hyde, R. S. Whaley, G. B. Buell, W. S. Cook, P. W. Sanders, W. L. Douglas, J. S. Pinkusohn, H. E. Raines, F. S. Ravenel, M. H. Lazarus, J. A. Ball, T. T. McCarty, Leland Moore and W. J. Leonard.

S. C., Fairfax.—Official: The Fairfax Insurance Agency incorporated; capital \$2000. Directors: E. L. Young, president; J. F. Lightsey, vice-president; W. M. Lightsey, secretary, treasurer and manager, and F. M. Young. Business is to begin at once.

S. C., Harleyville.—The People's Bank of Harleyville is reported to have been granted a commission; capital \$10,000; organizers, L. D. Canaday, J. L. Knight, E. L. Percy and A. A. Herger.

S. C., Hemingway.—The Hemingway Insurance & Real Estate Co., capital \$1000, is reported chartered; H. L. Baker, president, and L. L. Ard, secretary and treasurer.

S. C., Laurens.—The Laurens Building and Savings Association is reported to have been granted a commission; capital \$10,000; petitioners, C. H. Roper, L. G. Balle and C. E. Kennedy.

S. C., Marlboro.—The Marlboro Loan and Exchange Bank is reported to have been granted a commission; capital \$100,000, with privilege of increasing to \$250,000. Petitioners: J. J. Matheson, J. T. Medlin and A. L. Hamer.

Tenn., Chattanooga.—Official: The Chattanooga Title Co. chartered and incorporated; authorized capital \$250,000. G. D. Lancaster is interested. Officers not yet elected. Business is expected to begin soon.

Tenn., Chattanooga.—The Industrial Trust

Co. is reported to have made application for a charter; capital \$200,000; incorporators, W. D. Sutton, M. A. Cooper, H. Bushnell, H. D. Huffaker and Charles Hall.

Tenn., Nashville.—The Southern Bank & Trust Co. is reported to have made application for a charter; capital \$100,000; incorporators, E. T. Lewis, W. L. Looney, Val Taylor, W. E. Jacobs and J. A. Lyons.

Tex., Amarillo.—The Nugent Abstract Co., capital \$5000, is reported incorporated by J. S. Nugent, Thomas Currie and J. E. Spain.

Tex., Bishop.—The Bank of Bishop, a private institution, is reported to have begun business with Clarke Pease president, who is also president of the Corpus Christi National Bank of Corpus Christi, Tex.

Tex., Chandler.—The Citizens' Guaranty Bank of Chandler, capital \$25,000, is reported incorporated by W. Richardson, C. S. Yarbrough and J. C. Cade.

Tex., Crawford.—The Farmers' State Bank of Crawford, capital \$20,000, is reported incorporated by J. B. Nichols, A. O. Jordan, C. J. Edwards, O. B. Brown, M. M. Coffman, all of Crawford.

Tex., Crawford.—The Farmers' State Bank of Crawford is reported incorporated; capital \$20,000; incorporators, J. B. Nichols, A. O. Jordan, C. J. Edwards, O. B. Brown, M. M. Coffman, all of Crawford.

Tex., Dallas.—The Merchants' National Bank of Dallas is reported approved; capital \$250,000. Ben B. Cain or L. L. Jester, correspondent, Praetorian Bldg., Dallas, Tex.; W. Frank Knox, H. W. Jester and M. W. Townsend, directors.

Tex., Groesbeck.—The Farmers' Guaranty State Bank of Groesbeck is reported chartered; capital \$25,000; incorporators, W. T. Jackson, Sam A. Thomas, John Heck and others.

Tex., Handley.—The First State Bank of Handley is reported chartered; capital \$10,000. Incorporators: W. C. Forbess, J. B. Sikes, W. F. White and others.

Tex., Houston.—The Security Trust Co. of Houston, capital \$250,000, which is a reorganization of the American Trust Co., has elected the following officers: President, Edwin B. Parker; vice-president, J. D. Anderson; secretary and treasurer, John M. Maddox; directors, J. A. Baker, W. B. Chew, H. C. Schuhmacher, J. A. Hulon, C. J. von Rosenberg, R. C. Duff and M. P. Geiselman.

Tex., Navasota.—The Farmers' State Guaranty Bank, capital \$50,000, is reported to have made application for a charter; incorporators, J. H. Neal, J. T. Barry, J. T. Evans, G. C. Stoneham and John A. Mackey.

Tex., Newport.—The First Guaranty State Bank of Newport, capital \$10,000, is reported being organized by O. Wilke, J. N. Craig, E. Barker and others.

Tex., Port Arthur.—The Home Trust Co. is reported to have filed application for charter; capital \$100,000; incorporators, R. H. Woodworth, Travis Lambert, F. C. Smith, W. N. McReynolds, J. W. Williams, all of Jefferson county.

Tex., Poth.—Reported approved: The First National Bank of Poth; capital \$25,000; organizers, Richard Voges, R. J. Woellert, J. V. Marr, Wm. Eckel, E. L. Whitsett and J. H. Brown. R. Voges will probably be president, J. H. Brown vice-president, and R. J. Woellert cashier.

Tex., Valley Mills.—The Citizens' State Bank of Valley Mills is reported chartered; capital \$30,000. Incorporators: J. C. Jarrett, P. A. Nowlin, Paul Downing and others.

Tex., Woodsboro.—The First State Bank of Woodsboro is reported chartered; capital \$10,000; incorporators, W. F. Harsdorf, J. F. Tuttle and others of Woodsboro, M. Uecovich of San Antonio.

Va., Fredericksburg.—The Planters' National Bank of Fredericksburg is reported approved; capital \$75,000; Capt. M. B. Rowe, president; Capt. R. C. Vance, first vice-president, and W. J. Ford, cashier; directors, F. C. Baldwin of Snowden, Alexandria

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OLD DOMINION LAND COMPANY
NEWPORT NEWS, VA.

Berger of Hayfield, M. B. Rowe and Henry Warden of Fredericksburg, and R. C. Vance of Mannsfield Hall.

Va., Nickelsville.—A State bank capitalized at \$15,000 is reported organized. C. W. Bond and J. A. Odle will be vice-presidents, and J. A. Bond, cashier; directors, R. L. McConnell, H. F. Addington, C. C. Broadwater, W. B. Addington, J. M. Darter, Dr. J. M. Dougherty and James F. Sutton.

Va., Pulaski.—Official: The People's Insurance & Realty Co. incorporated and chartered; capital \$8000 to \$15,000; W. L. McGarock, president; A. T. Eskridge, vice-president, and H. W. Thaxton, secretary. Business is to begin this month.

Va., Richmond.—The Broadway National Bank of Richmond, capital \$200,000, is reported approved; directors, W. L. Walters, W. C. Davis, F. P. McConnell and J. F. Walsh; J. R. Tucker, correspondent, 519 Mutual Bldg. This succeeds the Broad Street Branch of the Commonwealth Bank of Richmond.

W. Va., Huntington.—Official: The Robson-Prichard Investment Co. incorporated; authorized capital \$300,000. Organizers: H. A. Robson, Charleston, W. Va.; F. C. Prichard, W. F. Buchanan, C. P. Snow and Rufus Switzer of Huntington. Business is to begin immediately.

NEW SECURITIES.

Ala., Mobile.—Official: The \$72,000 of 5 per cent. 10-year public improvement bonds have been purchased at \$72,115.20 and accrued interest by the City Bank & Trust Co. of Mobile. J. J. McMahon is City Clerk.

Ala., Montgomery.—Official: The New Farley National Bank, Montgomery, purchased at private sale at par and accrued interest \$78,000 of 5 per cent. 10-year paying bonds; denomination \$1000. W. A. Gunter, Jr., is Mayor.

Ala., Prattville.—J. C. Burns, Mayor, will, it is reported, receive bids immediately for the \$10,000 of 6 per cent. 10-year funding bonds voted December 16; denomination \$1000; dated January 1, 1913; maturity January 1, 1923.

Ark., Paragould.—Hohler & Cummings, Toledo, are reported to have purchased at par, for 6 per cent., \$25,000 of bonds of Village Creek Drainage District No. 1.

Fla., Brooksville.—An election is to be held in Hernando county, February 15, to vote on \$100,000 of road bonds.

Fla., Chipley.—C. L. Bagwell, Jacksonville, is reported to have been awarded \$22,000 of 5 per cent. water-works bonds.

Fla., Madison.—The City Council is reported to have authorized the issuing of \$5000 of water-works bonds.

Fla., Pensacola.—Official: Voted December 30: \$400,000 of 30-year bonds for construction of municipal docks and belt railway; interest not to exceed 5 per cent.; denomination \$1000. John A. Merritt is chairman board of bond trustees. Frank Kelly is Mayor.

Fla., Orlando.—Official: Bids will be received until 10 A. M. February 4 for \$200,000 of 5 per cent. 30-year bonds of road and bridge district No. 1, Orange county; denomination \$1000. Address B. M. Robinson, clerk Circuit Court. Further particulars will be found in the advertising columns.

Fla., Starke.—Starke District, it is reported, proposes issuing bonds for school purposes.

Fla., Titusville.—Official: Bids will be opened on March 1 by W. J. Bailey, City Clerk, for \$29,000 of 5 per cent. 30-year water-works bonds; denomination \$1000; dated January 1, 1913; maturity January 1, 1941. Bonds are the remainder of the \$30,000 issue voted February 14, 1911.

Ga., Americus.—January 26, it is reported, an election is to be held to vote on \$90,000 of 4½ per cent. 30-year Sumter county road and bridge bonds.

Ga., Augusta.—An ordinance is reported passed to the effect that the Council advertise the sale of \$250,000 of flood protection bonds.

Ga., Blackshear.—Reported that \$23,000 of water-works, \$22,000 of sewer and \$10,000 of electric-light 4 per cent. 30-year bonds have been purchased by J. B. McCrary & Co. of Atlanta.

Ga., Macon.—Reported that bids will be received until January 29 for \$15,000 of water bonds. Address Board of Water Commissioners.

Ga., Milltown.—H. C. Spear & Sons Company of Chicago are reported to have purchased at par \$10,000 of water-works, \$10,000 of school and \$5000 of electric-light 5 per cent.

bonds; dated September 1, 1912; maturity January 1, 1913, to 1938, inclusive.

Ga., Ocella.—Reported that \$16,000 of 5 per cent. 25-year sewer bonds have been purchased at 100.15 by Cooke, Holts & Co. of Chicago. E. S. Clifton is City Clerk.

Ky., Hopkinsville.—Bids will be received by H. W. Tibbs, City Clerk, it is reported, for \$3900 of 6 per cent. street-improvement bonds; denomination \$500; dated November 1, 1912; maturity November 1, 1913.

Ky., Danville.—Reported voted: \$20,000 of workhouse bonds.

Ky., Lexington.—At 10 A. M. January 15 city offered at public auction \$18,983.81 of 6 per cent. street-improvement bonds. J. E. Cassidy is Mayor and Waller B. Hunt, commissioner of public finance.

Ky., Wickliffe.—Bids will be received by R. D. Nelson, Board of Drainage Commissioners, Ballard county, for \$24,000 of 6 per cent. 2-11-year first lien drainage bonds; denomination to suit purchaser.

La., Baton Rouge.—The State Board of Liquidation has authorized the Governor to advertise for bids for \$11,000,000 of bonds to take up outstanding indebtedness. The bonds will be dated July 1, 1913, taking the place of those due January 1, 1914.

La., Gilliam.—Reported voted: Improvement bonds of North Caddo Drainage Sub-district No. 1, Caddo parish.

La., Mandeville.—Arrangements are reported being made to float \$30,000 of 5 per cent. sea-wall bonds.

La., Mansfield.—J. W. Parsons, Mayor, writes the Manufacturers Record that the ordinance recently adopted by the Council to vote on bonds for improvements was not as full as bond company required, and the election was not held. At some future time it is proposed to call another election.

Md., Annapolis.—The \$500,000 of Series C and \$500,000 of Series D State loan of 1912 4 per cent. 10-15-year bonds have been awarded as follows: Townsend Scott & Son, \$10,000 at 98.02 and \$25,000 at 97.77; Marshall Winchester, \$10,000 at 98.02, \$10,000 at 98.27 and \$20,000 at 97.77; Baker, Watts & Co., Nelson, Cook & Co., Baltimore, and Kissell, Kennicutt & Co., New York, \$300,000 at 97.772 and \$400,000 at 97.672; Strother, Brogden & Co., \$3000 at 97.75; Hambleton & Co., Baltimore, and R. L. Day & Co., Boston, jointly, \$220,000 at 97.581.

Miss., Bay St. Louis.—Hancock county contemplates, it is reported, \$50,000 of road and bridge construction bonds.

Miss., Hattiesburg.—Reported that all bids received January 6 for the \$100,000 of road bonds of Beats No. 1 and 3, Forrest county, were rejected.

Miss., Leakesville.—Official: Bids will be opened on February 3 for \$10,000 of 6 per cent. 5-10-year bonds for building and equipping agricultural high school; dated February 3, 1913. Address Board of Supervisors of Greene county.

Miss., Liberty.—An election was held in Third District, Amite county, January 13 to vote on road-building bonds.

Miss., Meadville.—February 14, it is reported, an election is to be held to vote on bonds for new courthouse. A. R. Moore is chancery clerk.

Miss., Poplarville.—The Board of Supervisors of Pearl River county proposes, it is stated, to issue \$25,000 of road bonds of Beat No. 1.

Miss., Purvis.—January 14, it is reported, an election was held in Beat 5, Lamar county, to vote on \$50,000 of public road bonds.

Miss., Waveland.—Reported that street-improvement bonds were recently voted. Address Board of Aldermen.

Miss., Yazoo City.—The Board of Supervisors of Yazoo county, S. S. Griffin, clerk, has ordered the issuing of \$300,000 of 5 per cent. 40-year road bonds. It is also stated that \$77,000 of bonds for three districts previously authorized by this county will be withdrawn.

Mo., Kansas City.—The election January 7, when \$2,350,000 of improvement bonds were voted on, is reported to have resulted as follows: Carried: \$750,000 for flood protection and \$100,000 for tuberculosis hospital and \$500,000 for garbage disposal. Defeated: Bridge and viaducts, \$450,000; municipal farm, \$150,000; traffic ways, \$300,000; Swope Park, \$250,000; playgrounds and other parks, \$450,000. Henry L. Jost is Mayor.

N. C., Charlotte.—The Board of Aldermen is reported to have ordered the issuing of \$50,000 of street-improvement bonds.

N. C., Gastonia.—The Board of Commis-

sioners of Gaston county is reported to have ordered the issuing of \$30,000 of 5 per cent. 30-year bonds for the purpose of paying off indebtedness accrued since erection of county courthouse and jail. John F. Leeper of Belmont, chairman of the board, has been appointed to look after the sale of the bonds.

N. C., Greensboro.—Official: Nelson Cook & Co. and Baker-Watts Company of Baltimore have been awarded at \$1346 premium the \$50,000 of 5 per cent. 30-year municipal improvement bonds, this being the remainder of the \$130,000 issue authorized last summer. T. J. Murphy is Mayor.

N. C., Huntersville.—The question of issuing \$20,000 of school bonds is reported under consideration.

N. C., Winston-Salem.—Forsyth county is reported authorized to issue \$150,000 of bonds to pay present floating indebtedness.

N. C., Halifax.—An election is to be held in Halifax county, it is reported, to vote on \$300,000 of road-improvement bonds.

N. C., Hillsboro.—Bids will be received until noon February 10 by S. Strudwick, chairman Good Roads Commission of Orange County, for \$100,000 to \$230,000 (amount specified in bid) of 4½ per cent. Orange county road-improvement bonds; denominations \$500 or \$1000.

Okla., Hinton.—Town is reported to have sold \$30,000 of 6 per cent. 25-year water and light bonds.

Okla., Ingersoll.—Official: The \$5000 of 6 per cent. light bonds have been sold; denomination \$1000; dated December 1, 1912; maturity 1937. (See Manufacturers Record, January 2.)

Okla., Oklahoma City.—Official: Bids will be received until 4 P. M. February 1 for \$3,000,000 of 4 per cent. Oklahoma State bonds; denomination \$1000; maturity 1934 to 1943, inclusive. Address Robert Dunlop, State Treasurer. Further particulars will be found in the advertising columns.

S. C., Gaffney.—The question of issuing \$50,000 of bonds is reported under consideration by Cherokee county.

S. C., Rock Hill.—The question of issuing bonds for school buildings is reported under consideration.

Tenn., Chattanooga.—The First National Bank of Cleveland is reported to have purchased at \$79.75 premium \$694.00 of bonds of paving districts 113 and 156. T. C. Thompson is Mayor.

Tenn., Chattanooga.—Reported that city proposes to issue \$300,000 of bonds for grammar school purposes.

Tenn., Halls.—Reported that \$15,000 of 5 per cent. street-improvement bonds have been purchased at par by the Union Bank & Trust Co. of Jackson.

Tenn., Sevierville.—Application is to be made to the Legislature, it is reported, asking authority for Sevier county to issue \$180,000 of pike bonds to be used on roads leading out of Sevierville. Ben Robertson is chairman County Court.

Tenn., Shelbyville.—The town is reported considering the question of issuing \$5000 of school bonds.

Tex., Austin.—The Attorney-General has approved the following securities: \$3500 of 5 per cent. 10-20-year school district No. 10; \$100,000 of 5½ per cent. 40-year road district No. 1, Matagorda county, bonds; \$7000 of city hall and \$3000 of school-building 5 per cent. 10-20-year bonds of De Leon city.

Tex., Balld.—Elections are to be held in precincts Nos. 1 and 2, Callahan county, it is reported, to vote on road improvement bonds.

Tex., Caldwell.—Reported that Burleson county proposes to hold an election to vote on \$350,000 of good-roads bonds.

Tex., Calvert.—Reported defeated: Opera-house construction bonds.

Tex., Corpus Christi.—Reported that \$14,000 of 5 per cent. sewer bonds have been pur-

ANNUAL REPORT OF THE CONDITION OF THE GERMAN SAVINGS BANK OF BALTIMORE CITY, IN THE STATE OF MARYLAND AT THE Close of Business December 31st, 1912

In conformity with Section 36 of the Banking Law.

Funds on hand December 31st, 1911.....	\$4,543,935.60
Received from depositors during 1912.....	2,130,496.90
Received interest and dividends on stocks, bonds, loans, etc., during 1912.....	237,082.85
Total.....	\$6,911,515.35

Paid depositors during 1912, including interest.....	\$2,137,788.12
Paid expenses during 1912.....	19,085.00
Paid taxes during 1912.....	12,184.32
Paid premiums, etc., during 1912.....	11,534.88
Ledger cost of bonds reduced during 1912.....	10,446.25
Funds on hand December 31st, 1912.....	4,720,536.78

Total.....\$6,911,515.35

ASSETS (Book Value.)

Bonds and stocks owned (held at or under their Par Value).....	\$3,372,636.18
Loans on collateral.....	273,270.00
Loans on mortgages.....	802,508.46
Real Estate (Bank Building).....	25,000.00
Other real estate owned and ground rents.....	51,054.10
Miscellaneous assets, perpetual insurance deposit.....	1,500.00
Cash on hand and in banks and trust companies.....	194,567.98
Total.....	\$4,720,536.78

LIABILITIES

Due depositors, including 3¼% interest per annum credited January 1st, 1913.....	\$4,503,590.18
Guarantee fund and undivided surplus.....	216,946.60
Total.....	\$4,720,536.78

Accounts open December 31st, 1911.....	8,079
Accounts opened during 1912.....	1,086
Accounts closed during 1912.....	900
Accounts existing December 31st, 1912.....	8,175

CHARLES SPILMAN, President.
WILLIAM SPILMAN, Treasurer.

The undersigned, appointed by the BOARD OF DIRECTORS of the GERMAN SAVINGS BANK OF BALTIMORE CITY, have audited the above statement, and find the same correct.

CHARLES ZIES,
HARRY M. BENZINGER,
THEO. F. KRUG.

chased at par and interest by Farson, Son & Co. of Chicago; denomination \$1000.

Tex., Corpus Christi.—Regarding report that Nueces county proposes issuing bonds. H. E. Suter, County Clerk, writes "that there is some talk of calling an election to vote on bonds, but that is all that is doing at present. (See Manufacturers Record, January 2.)

Tex., Cuero.—Official: Cutter, May & Co., Chicago, and The State School Board purchased, at par and accrued interest, \$35,000 of 5 per cent. 20-40-year Cuero independent school district school-building bonds; denomination \$1000.

Tex., Denton.—Denton county is reported considering the question of issuing \$350,000 of 5½ per cent. 40-year road bonds.

Tex., Denison.—Bonds for filter plant are to be issued. (See Manufacturers Record, January 9.)

Tex., El Paso.—Bids will be received by C. W. Fassett, City Clerk, it is reported, until 10 A. M. February 12 for \$400,000 of 5 per cent. 20-40-year water-works, sewer and street bonds.

Tex., Houston.—An election is soon to be held in Harris county, it is reported, to vote on \$1,000,000 of road bonds.

Tex., Houston.—Reported voted: \$30,000 of bonds of school district No. 25 and \$10,000 of building bonds of school district No. 21.

Tex., Longview.—Official: Voted May 25: \$100,000 of 5 per cent. 40-year water-works bonds; denomination \$2500. G. A. Bodenheimer, Mayor, will sell at once at private sale \$25,000 of this issue.

Tex., Madisonville.—Reported that it is proposed to issue \$16,000 of 5 per cent. 20-40-year water-works bonds.

Tex., Orange.—Reported voted: \$30,000 of Orange county drainage bonds.

W. Va., Moorefield.—February 1, it is reported, an election is to be held to vote on bonds for construction of municipal electric-lighting plant.

W. Va., Moorefield.—February 1, it is reported, an election is to be held to vote on bonds for construction of municipal electric-lighting plant. John I. Chipley is Mayor.

W. Va., Parkersburg.—Parkersburg district proposes to issue, it is reported, \$300,000 of high-school bonds.

FINANCIAL NOTES.

The Bank of Clio, at Clio, S. C., is reported to have increased its capital from \$20,000 to \$100,000.

The Savings Bank of Charleston, S. C., is reported authorized to increase its capital from \$50,000 to \$100,000.

The Commercial Bank & Trust Co. of Chattanooga, Tenn., has voted, it is reported, to increase its capital to \$100,000.

The Commonwealth Trust Co. of Little Rock, Ark., is reported to have increased its capital from \$200,000 to \$1,000,000.

The Peoples' Bank of Randleman, N. C., is reported to have increased its capital to \$25,000. T. E. Wren is president.

The Marlboro Loan & Exchange Bank of Marlboro, S. C., is reported to have increased its capital from \$100,000 to \$250,000.

The Realty Trust Co. of Argenta, Ark., according to press dispatches, is to be merged with the Valley Savings Bank of Argenta.

The conversion of the State Bank of Columbia, S. C., into the National State Bank of Columbia is reported approved; capital \$100,000.

Plans are reported under way for the consolidation of the Sykesville National Bank and the First National Bank, both of Sykesville, Md.

The Fidelity Bank & Trust Co., 310 Union St., Nashville, Tenn., has, according to press dispatches, increased its capital from \$25,000 to \$50,000. H. H. Blanton is cashier.

The Interstate Casualty Co. of Birmingham, Ala., is reported to have taken over the business of the Industrial Insurance Co. The capital of the Interstate company has been increased from \$50,000 to \$300,000, and the surplus increased by \$150,000.

Jenkins, Whedbee & Poe, dealers in investment securities, 8-10 South St., Baltimore, have issued "The Investors' Pocket Manual" for January, 1913, containing prices and statistics of railroad and industrial corporations.

The Bank of West Feliciana, at St. Francisville, La., is reported to have purchased and taken over the entire business of the Peoples' Bank of St. Francisville. The former company will increase its capital from

\$50,000 to \$100,000. S. McC. Lawrason is president.

A condensed statement of 332 State banks in Mississippi at close of business December 31, 1912, shows loans and discounts, \$48,937,632; due from other banks, \$14,007,101; total resources, \$85,537,123; capital paid in, \$12,844,924; surplus, \$3,041,208; undivided profits, \$2,483,850; individual deposits, \$54,423,710; time certificates of deposits, \$7,473,357; due other banks, \$1,117,990.

The International Life Insurance Co. of St. Louis, Mo., which recently absorbed the Great Western Life of Kansas City, is reported negotiating for the absorption of the Georgia Life of Macon, Ga., and the Tennessee Life of Nashville, Tenn. The former has business in force of \$6,000,000, and the latter \$2,500,000.

According to dispatches from St. Louis, Mo., the Missouri State Life Insurance Co. and the Hartford Life Insurance Co. of Connecticut are to be merged. The merged company will have its offices in the Chemical Bldg., St. Louis, and the combined policies of the two companies will amount to \$75,000,000.

A condensed statement of State banks in Georgia for 1912 shows loans and discounts, \$109,096,330; due from banks and bankers, \$13,509,694; cash and cash items, \$5,320,195; other resources, \$1,133,161; total resources, \$143,921,298; capital stock, \$27,286,973; surplus and net profits, \$15,472,241; due to banks and bankers, \$4,762,852; unpaid dividends, \$31,144; deposits, \$75,568,886. During the year there were organized 52 new State banks and five trust companies. Eleven State banks increased their capital stock a total of \$320,000, and three trust companies in Atlanta increased a total of \$956,000.

A condensed statement of 216 State banks in Louisiana at close of business December 18, 1912, shows demand loans, \$4,041,102; loans secured by mortgage, \$9,980,562; other loans and discounts, \$18,816,771; due from banks and bankers, \$9,463,706; total resources, \$51,047,708; capital stock paid in, \$7,523,985; surplus, \$2,877,305; undivided profits, less expenses and taxes paid, \$1,424,302; due to other banks and bankers, \$1,328,060; dividends unpaid, \$8429; individual savings deposits, \$5,271,125; individual deposits subject to check, \$24,190,043; time certificates of deposit, \$4,417,803; demand certificates of deposit, \$179,249.

SECOND-HAND LIDGERWOOD SKIDDING MACHINE WANTED

Wanted—Price and full information on one second-hand Lidgerwood Overhead Skidding Machine; must have two drums each leading end and skidding end with rapid reducing friction gears.

D. T. McKEITHAN LUMBER CO.,
Lumber, S. C.

FOR SALE

200,000,000 Feet Stumpage

Long leaf yellow pine timber in South Georgia, together with fully equipped 50,000 capacity saw and planing mill, locomotives, cars and other logging equipment, at bargain price; part cash; balance to be paid as timber is cut. Lack of sufficient capital reason for offering to sell. Prefer to sell one-fourth or one-half interest to party who can furnish capital to operate. If interested, apply to

JOHN J. WALKER,
Ensley, Ala.

Trustees' Sale Manufacturing Plant ELEVEN ACRES

Located at Knoxville, Tenn., on the Southern and Louisville & Nashville railroads. Buildings suitable for any kind of woodworking or furniture plant. Cheap raw material. White help. Machinery sold separately. Complete Sawmill and Filling Outfit, Veneer Slicers and Dryers, 18x36 Corliss Engine, Short Log Mill, Dimension Planer, Sanders, Glue Spreaders, Blowers, Dust Arresters, Rubber and Leather Belting, and Hoisting Outfit. Cheap for quick sale. Address

TRUSTEES FOR PHILADELPHIA VENEER & LUMBER CO., INC.,
Knoxville, Tenn.

AMERICAN

TAMPA BAY HOTEL

TAMPA, FLORIDA

EUROPEAN

OPEN ENTIRE YEAR

FIREPROOF

The climate on the West Coast of Florida is unsurpassed and is noted for its dryness and even temperature.

The new Golf Course has been completed, thus adding to the many outdoor features the Tampa Bay Hotel already has to offer its guests.

Electric luminous heaters have been installed, so that on cool mornings guests may heat their rooms at whatever temperature they may desire by simply touching a button.

A new 14-passenger Premier Automobile Bus has been added to the service, also an

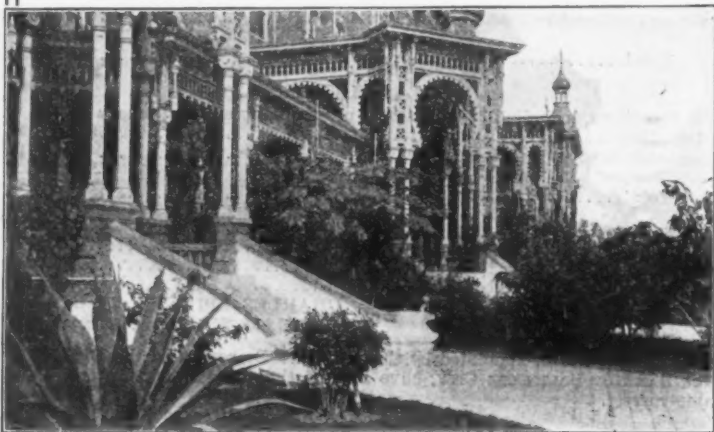
automobile truck, so that guests and their baggage may be brought to and from Union Station free of charge.

After expending over \$70,000 on improvements, redecorating and refurnishing and additional baths and long distance telephones being installed, the Tampa Bay Hotel is now one of the best appointed hotels in the country.

Special rates for families and for long stays.

Apply for booklet and for rates to the manager.

H. M. STANFORD, Manager



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